

Version	
1.0	

Revision Date: 09/05/2021

Date of last issue: -Date of first issue: 09/05/2021

# Safety Data Sheet (SDS) cover letter for product:

## **DNeasy Plant Pro Kit (50)**

Catalog number:	69204
Document ID:	80000008627
Country / Language:	US / EN

This product contains one or more components with related SDS, listed below. You can find the SDS for each component on the following pages.

Components with SDS:

- Buffer EB
- Buffer AW2
- Solution PS
- Buffer APP
- Solution CD1
- Solution CD2
- Buffer AW1

Kind regards,, Your QIAGEN Team

Email cpc@qiagen.com | Website www.qiagen.com/safety



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### **SECTION 1. IDENTIFICATION**

Product name	: Buffer EB	
Manufacturer or supplier's o	letails	
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden	
Telephone	: +49-(0)2103-29-0	
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com	
E-mail addressResponsible/issuing person	: cpc@qiagen.com	
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300	

#### Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
	. Eaboratory chomicale

# **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

# **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.



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In case of skin contact		ely with soap and plenty of water while ninated clothes and shoes.
In case of eye contact	: Remove contact le Protect unharmed Rinse thoroughly w	nses. eye. rith plenty of water for at least 15 minutes
If swallowed	Rinse mouth with w	lowed obtain immediate medical attention
Most important symptoms and effects, both acute and delayed	: No information ava	
Notes to physician	: No information ava	ilable.
ECTION 5. FIRE-FIGHTING ME	ASURES	
Suitable extinguishing media		neasures that are appropriate to local the surrounding environment.
Specific hazards during fire fighting		position products may be a hazard to
Hazardous combustion products	: No hazardous com	bustion products are known
Further information Special protective equipment for fire-fighters		and/or explosion do not breathe fumes. d breathing apparatus for firefighting if
ECTION 6. ACCIDENTAL RELE	EASE MEASURES	
Personal precautions,	: Use personal prote	ctive equipment.

protective equipment and emergency procedures	•	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Materials to avoid	:	Do not store near acids.
Further information on storage stability	:	No decomposition if stored and applied as directed.



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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	8.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available



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Density	: 1 g/cm3	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n-	: No data available	
octanol/water Autoignition temperature	: not determined	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

# SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

## Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks :	: May cause skin irritation in susceptible persons	3.
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# Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Remarks

: May irritate eyes.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Product:

Remarks : No data available

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **Reproductive toxicity**

Not classified based on available information.

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

: No data available

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#### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### Product:

Toxicity to fish



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	Remarks: No data a	vailable
Toxicity to algae/aquatic plants	: Remarks: No data a	vailable
Toxicity to microorganisms	: Remarks: No data a	vailable
<b>Persistence and degradab</b> No data available	ility	
Bioaccumulative potential		
Product: Bioaccumulation	: Remarks: No data a	vailable
Mobility in soil		
No data available Other adverse effects		
<u>Product:</u> Ozone-Depletion Potential	Protection of Stratos Substances Remarks: This prod manufactured with a	Protection of Environment; Part 82 spheric Ozone - CAA Section 602 Class I uct neither contains, nor was a Class I or Class II ODS as defined by th Section 602 (40 CFR 82, Subpt. A, App.A
Additional ecological information	: No data available	

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Dispose of contents/container in accordance with local regulation.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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#### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



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### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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### **SECTION 1. IDENTIFICATION**

Product name Manufacturer or supplier's o	•	Buffer AW2 ils
Company	:	QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	:	+49-(0)2103-29-0
Responsible Department	:	QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	:	cpc@qiagen.com
Emergency telephone	:	CHEMTREC USA & Canada 1-800-424-9300

#### Recommended use of the chemical and restrictions on use

Recommended use Eaboratory chemicals	Recommended use	: Laboratory chemicals
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#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.



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In case of skin contact		y with soap and plenty of water while nated clothes and shoes.
In case of eye contact	: Remove contact lens Protect unharmed ey	ses. re. h plenty of water for at least 15 minutes
If swallowed	: If accidentally swallor Rinse mouth with wa	wed obtain immediate medical attention
Most important symptoms and effects, both acute and delayed	: No information availa	
Notes to physician	: No information availa	able.
SECTION 5. FIRE-FIGHTING ME	ASURES	
Suitable extinguishing media		easures that are appropriate to local ne surrounding environment.
Specific hazards during fire fighting		osition products may be a hazard to
Hazardous combustion products	: None	
Further information Special protective equipment for fire-fighters		nd/or explosion do not breathe fumes. breathing apparatus for firefighting if
SECTION 6. ACCIDENTAL RELE	EASE MEASURES	
Personal precautions, protective equipment and emergency procedures	: Use personal protect Avoid breathing dust	ive equipment. / fume/ gas/ mist/ vapors/ spray.
Methods and materials for	: Keep in suitable, clos	sed containers for disposal.

# SECTION 7. HANDLING AND STORAGE

containment and cleaning up

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Further information on storage stability	:	No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.



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# Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	7.5
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.013 g/cm3
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water	: No data available		
Autoignition temperature	: not determined		
Decomposition temperature	: No data available		
Viscosity			
Viscosity, dynamic	: No data available		
Viscosity, kinematic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

Not classified based on available information.

# Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

### Skin corrosion/irritation

Not classified based on available information.

# Product:

Remarks

: May cause skin irritation in susceptible persons.

### Serious eye damage/eye irritation

Not classified based on available information.

# Product:

Remarks : May irritate eyes.



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#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

### Respiratory sensitization

Not classified based on available information.

### Product:

Remarks

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No data available

# Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

## STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

Product:

Remarks

: No data available

# SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Product:	
Toxicity to fish	: Remarks: No data available
Toxicity to algae/aquatic plants	: Remarks: No data available
Toxicity to microorganisms	: Remarks: No data available



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<b>Persistence and degrada</b> No data available	ability	
Bioaccumulative potenti	al	
Product: Bioaccumulation	: Remarks: No data a	vailable
<b>Mobility in soil</b> No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potentia	Protection of Stratos Substances Remarks: This produ manufactured with a	Protection of Environment; Part 82 spheric Ozone - CAA Section 602 Class I uct neither contains, nor was a Class I or Class II ODS as defined by th Section 602 (40 CFR 82, Subpt. A, App.A
Additional ecological information	: No data available	

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

#### **Domestic regulation**

49 CFR

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.



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### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and



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New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

**Revision Date:** 

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SDS Number	:	60000001408
		00000001400

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### **SECTION 1. IDENTIFICATION**

Product name Manufacturer or supplier's o	: Solution PS etails	
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden	
Telephone	: +49-(0)2103-29-0	
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com	
E-mail addressResponsible/issuing person	: cpc@qiagen.com	
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300	)

#### Recommended use of the chemical and restrictions on use

Recommended use Eaboratory chemicals	Recommended use	: Laboratory chemicals
--------------------------------------	-----------------	------------------------

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	:	Show this material safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air.



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In case of skin contact		with soap and plenty of water while ated clothes and shoes.
In case of eye contact	: Remove contact lense Protect unharmed eye	es. e. plenty of water for at least 15 minutes
If swallowed	: If accidentally swallow Rinse mouth with wate	ved obtain immediate medical attention.
Most important symptoms and effects, both acute and delayed	: No information availab	
Notes to physician	: No information availab	ble.
ECTION 5. FIRE-FIGHTING ME	ASURES	
Suitable extinguishing media		asures that are appropriate to local e surrounding environment.
Specific hazards during fire fighting	: Exposure to decompo health.	sition products may be a hazard to
Hazardous combustion products	: Carbon oxides Nitrogen oxides (NOx)	)
Further information Special protective equipment for fire-fighters		d/or explosion do not breathe fumes. Treathing apparatus for firefighting if
SECTION 6. ACCIDENTAL RELE	EASE MEASURES	
Personal precautions, protective equipment and emergency procedures	: Use personal protectiv Avoid breathing dust/	ve equipment. fume/ gas/ mist/ vapors/ spray.

# containment and cleaning up

:

# SECTION 7. HANDLING AND STORAGE

Methods and materials for

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Further information on storage stability	:	No decomposition if stored and applied as directed.

Keep in suitable, closed containers for disposal.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.



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# Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water	: No data available	
Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

## SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

#### SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

Not classified based on available information.

# Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

### Skin corrosion/irritation

Not classified based on available information.

# Product:

Remarks

: May cause skin irritation in susceptible persons.

### Serious eye damage/eye irritation

Not classified based on available information.

# Product:

Remarks : May irritate eyes.



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#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

### Respiratory sensitization

Not classified based on available information.

### Product:

Remarks

•

No data available

# Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### **Further information**

Product:

Remarks

: No data available

# SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
<u>Product:</u> Toxicity to fish	: Remarks: No data available
Toxicity to algae/aquatic plants	: Remarks: No data available
Toxicity to microorganisms	: Remarks: No data available



/ersion .0	Revision Date: 09/05/2021	Date of last issue: - Date of first issue: 09/05/2021
<b>Persistence and degrada</b> No data available	bility	
Bioaccumulative potentia	I	
Product: Bioaccumulation	: Remarks: No data av	vailable
<b>Mobility in soil</b> No data available		
Other adverse effects		
<u>Product:</u> Ozone-Depletion Potential	Protection of Stratos Substances Remarks: This produ manufactured with a	Protection of Environment; Part 82 pheric Ozone - CAA Section 602 Class I uct neither contains, nor was Class I or Class II ODS as defined by the ection 602 (40 CFR 82, Subpt. A, App.A
Additional ecological information	: No data available	

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

#### **Domestic regulation**

49 CFR

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.



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reporting levels established by SARA Title III, Section 313.

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### **California List of Hazardous Substances**

Polyvinyl pyrrolidone

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation;

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DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

SDS Number : 60000009574

Revision Date : 09/05/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# **SECTION 1. IDENTIFICATION**

Product name Manufacturer or supplier's d	: Buffer APP etails
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	: +49-(0)2103-29-0
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	: cpc@qiagen.com
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300

#### Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemic	als
-------------------------------------	-----

# **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to Metals	:	Category 1
Acute toxicity (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 4
Serious eye damage	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H290 May be corrosive to metals. H312 + H332 Harmful in contact with skin or if inhaled. H318 Causes serious eye damage.



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Precautionary Statements	Prevention:	

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :
-----------------------

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
guanidinium thiocyanate	593-84-0	>= 50 - < 70
Actual concentration is withhold	aa a trada aaarat	

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye.
If swallowed	:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed Notes to physician	:	No information available. Harmful in contact with skin or if inhaled. Causes serious eye damage. No information available.

#### **SECTION 5. FIRE-FIGHTING MEASURES**



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Suitable extinguishing media	: Use water spray, al carbon dioxide.	cohol-resistant foam, dry chemical or
Specific hazards during fire fighting	courses.	f from fire fighting to enter drains or water position products may be a hazard to
Hazardous combustion products	: Carbon oxides Sulfur oxides Carbon monoxide, hydrocarbons (smo	carbon dioxide and unburned ke).
Further information Special protective equipment for fire-fighters		and/or explosion do not breathe fumes. d breathing apparatus for firefighting if
SECTION 6. ACCIDENTAL RELE	EASE MEASURES	
Personal precautions, protective equipment and emergency procedures	: Use personal prote Ensure adequate ve Avoid breathing due	
Environmental precautions	: Prevent product fro Prevent further leak	m entering drains. kage or spillage if safe to do so.
Methods and materials for containment and cleaning up	acid binder, univers	absorbent material (e.g. sand, silica gel, sal binder, sawdust). osed containers for disposal. g agents

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

sodium hypochlorite

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an

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Hand protection	approved filter.	
Material	: Protective gloves	
Remarks Eye protection	its material but also from one producer t given by the produc through times, and (mechanical strain, : Tightly fitting safety Wear face-shield an	propriate glove does not only depend on on other quality features and is different to the other. Take note of the information eer concerning permeability and break of special workplace conditions duration of contact). goggles and protective suit for abnormal processing
	problems. Do not wear contac Ensure that eyewas to the workstation lo	sh stations and safety showers are close
Skin and body protection		
Hygiene measures	: Keep away from foc Wash hands before Ensure adequate ve Avoid contact with t	

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	7.4
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available



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Relative vapor density	: No data available		
Relative density	: No data available		
Density	: 1.15 g/cm3		
Solubility(ies) Water solubility	: No data available		
Solubility in other solvents	s : No data available		
Partition coefficient: n- octanol/water	: No data available		
Autoignition temperature	: not determined		
Decomposition temperature	: No data available		
Viscosity Viscosity, dynamic	: No data available		
Viscosity, kinematic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Metal corrosion rate	: 8.63 mm/a Corrosive to metals		

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions.</li></ul>
Chemical stability	Hazardous decomposition products formed under fire conditions.
Possibility of hazardous	Thiocyanates can develop poisonous gas in contact with strong acids.
reactions	Keep away from oxidizing agents, and acidic or alkaline products.
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

# SECTION 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Harmful in contact with skin or if inhaled.

#### Product:

Acute oral	toxicity
------------	----------

: LD50 Oral (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401



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			Remarks: No data available	
Acute inhalation	n toxicity	:	Remarks: No data available	
Acute dermal to	oxicity	:	Remarks: No data available	
Components:				
guanidinium tl	hiocyanate:			
Acute oral toxic	-	:	LD50 Oral (Rat, female): 593 Method: OECD Test Guideli	
Acute toxicity (a administration)	other routes of	:	LD50 (Mouse): 300 mg/kg	
Skin corrosior Not classified b		able	information.	
Product:				
Method Result		:	OECD Test Guideline 404 No skin irritation	
<b>_</b> .			May any a skin instation in a	
Remarks	, .	:	May cause skin irritation in s	susceptible persons.
Remarks Serious eye da Causes serious Respiratory or	s eye damage.		on	susceptible persons.
<b>Serious eye da</b> Causes serious	s eye damage. r skin sensitiz tion	atio	ion on	susceptible persons.
Serious eye da Causes serious Respiratory or Skin sensitizat	s eye damage. r skin sensitiz tion pased on availa	atio	ion on	susceptible persons.
Serious eye da Causes serious Respiratory or Skin sensitizat Not classified b	s eye damage. r skin sensitiz tion based on availa	atic	on on information.	susceptible persons.
Serious eye da Causes serious Respiratory or Skin sensitizat Not classified b Respiratory se	s eye damage. r skin sensitiz tion based on availa	atic	on on information.	susceptible persons.
Serious eye da Causes serious Respiratory or Skin sensitizat Not classified b Respiratory se Not classified b Product:	s eye damage. r skin sensitiz tion based on availa ensitization based on availa	atic able :	ion information. information. No data available	susceptible persons.
Serious eye da Causes serious Respiratory or Skin sensitizat Not classified b Respiratory se Not classified b Product: Remarks Germ cell mut	s eye damage. r skin sensitiz tion based on availa consitization based on availa agenicity based on availa	atic able :	ion information. information. No data available	susceptible persons.
Serious eye da Causes serious Respiratory or Skin sensitizat Not classified b Respiratory se Not classified b <u>Product:</u> Remarks Germ cell mut Not classified b	s eye damage. r skin sensitiz tion based on availa ensitization based on availa agenicity based on availa ty based on availa No ingredient	able able : able : of t	ion information. information. No data available information. information.	greater than or equal to 0.1% is
Serious eye da Causes serious Respiratory or Skin sensitizat Not classified b Respiratory se Not classified b <u>Product:</u> Remarks Germ cell mut Not classified b Carcinogenicit Not classified b	s eye damage. r skin sensitiz tion based on availa ensitization based on availa agenicity based on availa ty based on availa No ingredient identified as p No componer	able able : able : able : of t prob	ion information. information. No data available information. information. this product present at levels g able, possible or confirmed ho	greater than or equal to 0.1% is

# Reproductive toxicity

Not classified based on available information.



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## STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Not classified based on available information.

# Aspiration toxicity

Not classified based on available information.

#### **Further information**

#### Product:

Remarks

No data available

:

## **SECTION 12. ECOLOGICAL INFORMATION**

## Ecotoxicity

# Product:

Toxicity to fish	:	
		Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
guanidinium thiocyanate:		
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 89.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 42.4 mg/l Exposure time: 48 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Poecilia reticulata (guppy)): 25 mg/l Exposure time: 96 d
Persistence and degradabili	ty	
No data available		
Bioaccumulative potential		
Product:		
Bioaccumulation	:	Remarks: No data available
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential		Regulation: 10 CER Protection of Environment: P

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82



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	Substances Remarks: This product neit manufactured with a Class	Ozone - CAA Section 602 Class I ther contains, nor was I or Class II ODS as defined by the 602 (40 CFR 82, Subpt. A, App.A +
Additional ecological information	: An environmental hazard c unprofessional handling or Harmful to aquatic life. Harmful to aquatic life with	

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: The product should not be allowed to enter drains, water courses or the soil.
	Send to a licensed waste management company.
	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	: Dispose of as unused product.
	Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

<b>UNRTDG</b> UN number Proper shipping name	:	UN 1760 CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE)
Class Packing group Labels	::	8     8
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	: : : : : : : : : : : : : : : : : : : :	UN 1760 Corrosive liquid, n.o.s. (GUANIDINE THIOCYANATE) 8 III Corrosive 856 852
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code	: : : : : : : : : : : : : : : : : : : :	UN 1760 CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE) 8 III 8 F-A, S-B



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#### Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# Domestic regulation

### 49 CFR

UN/ID/NA number	:	UN 1760
Proper shipping name	:	Corrosive liquids, n.o.s. (GUANIDINE THIOCYANATE)
Class	:	8
Packing group	:	III
Labels	:	CORROSIVE
ERG Code	:	154
Marine pollutant	:	no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Corrosive to Metals Acute toxicity (any route of exposure) Serious eye damage or eye irritation
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.



# **DNeasy Plant Pro Kit (50)**

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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative



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SDS Number	. 60000000575	

SDS Number	:	60000009575
Revision Date	:	09/05/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# **SECTION 1. IDENTIFICATION**

Product name	:	Solution CD1
Manufacturer or supplier's de	eta	ils
Company	:	QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	:	+49-(0)2103-29-0
Responsible Department	:	QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	:	cpc@qiagen.com
Emergency telephone	:	CHEMTREC USA & Canada 1-800-424-9300

## Recommended use of the chemical and restrictions on use

Recommended use	: La	aboratory chemicals
Recommended use	: La	aborator

# **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

# **GHS** label elements

Not a hazardous substance or mixture.

# Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
sodium thiocyanate	540-72-7	>= 1 - < 10
Actual concentration is withh	ald an a trada agarat	

Actual concentration is withheld as a trade secret

# **SECTION 4. FIRST AID MEASURES**

General advice

: Show this material safety data sheet to the doctor in attendance.



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If inhaled	: Move to fresh air. If symptoms persist,	, call a physician.
In case of skin contact	: Wash off immediate	ly with soap and plenty of water while hinated clothes and shoes.
In case of eye contact	: Remove contact len Protect unharmed e Rinse thoroughly wi and consult a physic	ye. th plenty of water for at least 15 minutes
If swallowed	Rinse mouth with wa	owed obtain immediate medical attention ater. J by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: No information avail	lable.
Notes to physician	: No information avail	lable.

# **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media Specific hazards during fire fighting	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Sulfur oxides
Further information Special protective equipment for fire-fighters	:	In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus for firefighting if necessary.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

# SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Further information on storage stability	:	No decomposition if stored and applied as directed.



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# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection

Remarks	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Safety glasses
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	:	Keep away from food and drink. When using do not eat, drink or smoke.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available



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Density	: No data available	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

# SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

# SECTION 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Not classified based on available information.

# Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

## **Components:**

sodium thio	cyanate:
-------------	----------

# Skin corrosion/irritation

Not classified based on available information.



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<u>Product:</u> Remarks	: May cause skin irrita	tion in susceptible persons.
Components:		
sodium thiocyanat	e:	
Species Result	: Rabbit : No skin irritation	
Serious eye dama	<b>ge/eye irritation</b> I on available information.	
Product:		
Remarks	: May irritate eyes.	
Components:		
sodium thiocyanat		
Species Result	: Rabbit : No eye irritation	
Respiratory or ski	n sensitization	
Skin sensitization Not classified based	on available information.	
Respiratory sensit Not classified based	<b>ization</b> I on available information.	
<u>Product:</u> Remarks	: No data available	
Components:		
sodium thiocyanat	e:	
Species Result	: Humans : positive	
Species Result	: Guinea pig : positive	
Germ cell mutager Not classified based	<b>hicity</b> I on available information.	
Carcinogenicity		
IARC No	d on available information. ingredient of this product present at ntified as probable, possible or confi	levels greater than or equal to 0.1% is rmed human carcinogen by IARC.
	component of this product present a DSHA's list of regulated carcinogen	at levels greater than or equal to 0.1% is s.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is



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identified as a known or anticipated carcinogen by NTP.

# **Reproductive toxicity**

Not classified based on available information.

## STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

# **Further information**

# Product:

Remarks

: No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

|--|

Toxicity to fish	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
sodium thiocyanate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 233 mg/l Exposure time: 96 h
		LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 11 mg/l Exposure time: 48 h
Toxicity to algae/aquatic	:	(Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
plants Toxicity to microorganisms	:	EC10 (Bacteria): 8,000 mg/l Method: OECD Test Guideline 209
Toxicity to microorganisms	:	· · · · ·

# Persistence and degradability

No data available



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Bioaccumulative pote	ntial	
Product:		
Bioaccumulation	: Remarks: No data	available
Components:		
sodium thiocyanate:		
Partition coefficient: n- octanol/water	: Remarks: Not app	licable
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Ozone-Depletion Poten	Protection of Strat Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 ospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was a Class I or Class II ODS as defined by the Section 602 (40 CFR 82, Subpt. A, App.A +
Additional ecological information	: No data available	

# SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

# **SECTION 14. TRANSPORT INFORMATION**

## **International Regulations**

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

## IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# Domestic regulation

### 49 CFR

Not regulated as a dangerous good



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# **SECTION 15. REGULATORY INFORMATION**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
disodium	7558-79-4	5000	*
hydrogenorthophosphate			

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

disodium

disodium

n 7558-79-4

hydrogenorthophosphate The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

7558-79-4

>= 1 - < 5 %

>= 1 - < 5 %

hydrogenorthophosphate

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### **California List of Hazardous Substances**

disodium hydrogenorthophosphate 7558-79-4

## **TSCA** list

No substances are subject to a Significant New Use Rule.



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No substances are subject to TSCA 12(b) export notification requirements.

# SECTION 16. OTHER INFORMATION

# Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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Revision Date : 09/05/2021

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# **SECTION 1. IDENTIFICATION**

Product name	: Solution CD2
Manufacturer or supplier's de	etails
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden
Telephone	: +49-(0)2103-29-0
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com
E-mail addressResponsible/issuing person	: cpc@qiagen.com
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300

## Recommended use of the chemical and restrictions on use

Recommended use	: Laboratory chemicals
	. Laboratory chemicais

# SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary Statements	:	<b>Prevention:</b> P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.



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#### **Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P362 Take off contaminated clothing and wash before reuse.

#### Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

# Components

Chemical name	CAS-No.	Concentration (% w/w)			
aluminumchloride hexahydrate	7784-13-6	>= 1 - < 10			
Actual concentration is withheld as a trade secret					

# **SECTION 4. FIRST AID MEASURES**

General advice	Move out of dangerous area. Show this material safety data sheet to the doctor attendance.	' in
If inhaled	If unconscious, place in recovery position and see advice. If symptoms persist, call a physician.	k medical
In case of skin contact	Wash off immediately with soap and plenty of war removing all contaminated clothes and shoes. If symptoms persist, call a physician.	er while
In case of eye contact	Small amounts splashed into eyes can cause irre tissue damage and blindness. In the case of contact with eyes, rinse immediated of water and seek medical advice. Remove contact lenses. Protect unharmed eye.	
If swallowed	If accidentally swallowed obtain immediate medic Rinse mouth with water. Never give anything by mouth to an unconscious	
Most important symptoms and effects, both acute and delayed Notes to physician	No information available. Causes skin irritation. Causes serious eye damage. No information available.	

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses. Exposure to decomposition products may be a hazard to health.



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Hazardous combustion products		on oxides gen oxides (NOx)
Further information Special protective equipment for fire-fighters	: Wea	e event of fire and/or explosion do not breathe fumes. r self-contained breathing apparatus for firefighting if ssary.
SECTION 6. ACCIDENTAL RELE	ASE ME	ASURES
Personal precautions.	: Use	personal protective equipment.

protective equipment and emergency procedures	•	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

# SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
aluminumchloride hexahydrate	7784-13-6	TWA	2 mg/m3 (Aluminum)	OSHA P0
		TWA	2 mg/m3 (Aluminum)	NIOSH REL

# Personal protective equipment

Hand protection

Material : Protective gloves

:

Remarks

The choice of an appropriate glove does not only depend on



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Eye protection	from one producer t given by the produc through times, and (mechanical strain, : Tightly fitting safety Wear face-shield ar problems. Do not wear contac	t lenses. th stations and safety showers are close
Skin and body protection	: Choose body protect	ction according to the amount and dangerous substance at the work place. ctive clothing
Hygiene measures	: Keep away from for Wash hands before Ensure adequate ve Avoid contact with t	

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available



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Solubility(ies)	. No doto ovoilable		
Water solubility	: No data available		
Solubility in other solvents	: No data available		
Partition coefficient: n-	: No data available		
octanol/water			
Autoignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity Viscosity, dynamic	: No data available		
Viscosity, kinematic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		

# SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.</li> </ul>	
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>	

# SECTION 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	: Rei	marks: No data available
Acute inhalation toxicity	: Rei	marks: No data available
Acute dermal toxicity	: Rei	marks: No data available

### **Components:**

aluminumchloride hexahydrate:				
Acute oral toxicity	:	LD50 Oral (Rat): 3,311 mg/kg		
Acute inhalation toxicity	:	Remarks: No data available		



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Acute dermal toxicity	: Remarks: No data av	ailable
Skin corrosion/irritation Causes skin irritation.	on	
Product: Remarks	: May irritate skin.	
<b>Serious eye damage/e</b> Causes serious eye dar		
<u>Product:</u> Remarks	: May cause irreversibl	le eye damage.
Respiratory or skin se	nsitization	
Skin sensitization Not classified based on	available information.	
Respiratory sensitizat Not classified based on		
<u>Product:</u> Remarks	: No data available	
Germ cell mutagenicit Not classified based on		
Carcinogenicity		
Not classified based on IARC No ingr	edient of this product present at	levels greater than or equal to 0.1% is med human carcinogen by IARC.
	ponent of this product present a A's list of regulated carcinogens	t levels greater than or equal to 0.1%
0	edient of this product present at d as a known or anticipated card	levels greater than or equal to 0.1% is cinogen by NTP.
Reproductive toxicity		
Not classified based on		
STOT-single exposure Not classified based on		
STOT-repeated expos Not classified based on		

Not classified based on available information.

# Aspiration toxicity

Not classified based on available information.

# Further information

# Product:



Neasy Plant Pro Kit	50)	QIAGE
ersion .0	Revision Date:Date of last issue: -09/05/2021Date of first issue: 09/0	)5/2021
Remarks	: No data available	
ECTION 12. ECOLOGICAL IN	ORMATION	
Ecotoxicity		
Product:		
Toxicity to fish	: Remarks: No data available	
Toxicity to algae/aquatic plants	: Remarks: No data available	
Toxicity to microorganisms	: Remarks: No data available	
Components:		
aluminumchloride hexahy	rate:	
Toxicity to fish	: LC50 (Fish): 27.1 mg/l Exposure time: 96 h	
Toxicity to daphnia and othe aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 27.3 mg/l	
Persistence and degradab	lity	
No data available		
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: No data available	
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	<ul> <li>Regulation: 40 CFR Protection of Environment; Part Protection of Stratospheric Ozone - CAA Section 60 Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defin U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. B).</li> </ul>	02 Class I ned by the
Additional ecological information	: No data available	

# SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

•		
Waste from residues	:	Send to a licensed waste management company.
		Dispose of as hazardous waste in compliance with local and



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Contaminated packaging

national regulations. Dispose of as unused product. Do not re-use empty containers.

# **SECTION 14. TRANSPORT INFORMATION**

# International Regulations

# UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

### 49 CFR

Not regulated as a dangerous good

# **SECTION 15. REGULATORY INFORMATION**

# CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
ammonium acetate	631-61-8	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).



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# Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

ammonium acetate 631-61-8 >= 20 - < 30 % The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

ammonium acetate 631-61-8 >= 20 - < 30 % This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

# Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### California List of Hazardous Substances

ammonium acetate

631-61-8

## TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
		1910.1000
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response: EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for



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the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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Revision Date : 09/05/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# **SECTION 1. IDENTIFICATION**

Product name Manufacturer or supplier's de	: Buffer AW1 etails	
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden	
Telephone	: +49-(0)2103-29-0	
Responsible Department	: QIAGEN Inc. 19300 Germantown Road Germantown, MD 20874, USA Tel.: 800-426-8157 http://support.qiagen.com	
E-mail addressResponsible/issuing person	: cpc@qiagen.com	
Emergency telephone	: CHEMTREC USA & Canada 1-800-424-9300	

## Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals	Recommended use	: Laboratory chemicals
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# SECTION 2. HAZARDS IDENTIFICATION

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

1310.1200)		
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H302 + H332 Harmful if swallowed or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.



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Precautionary Statements	: Prevention: P280 Wear protection face protection.	ve gloves/ protective clothing/ eye protection/
	<b>Response:</b> P362 Take off conta	aminated clothing and wash before reuse.
	<b>Disposal:</b> P501 Dispose of co disposal plant.	ntents/ container to an approved waste

# Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: Mixture

Substance / Mixture	
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# Components

Chemical name	CAS-No.	Concentration (% w/w)	
guanidine hydrochloride	50-01-1	>= 50 - < 70	
Actual concentration is withheld as a trade secret			

Actual concentration is withheld as a trade secret

# **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	No information available. Harmful if swallowed or if inhaled. Causes skin irritation. Causes serious eye irritation.
Notes to physician	:	No information available.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during fire fighting	:	Exposure to decomposition products may be a hazard to health.



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Hazardous combustion products	: Carbon oxides Nitrogen oxides (NOx)	
Further information Special protective equipment for fire-fighters		or explosion do not breathe fumes. eathing apparatus for firefighting if

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

# SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.
Further information on storage stability	:	No decomposition if stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

# Personal protective equipment

Hand protection

Material	:	Protective gloves
Remarks Eye protection	:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Safety glasses



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	Wear face-shield and problems.	protective suit for abnormal processing
		stations and safety showers are close ation.
Skin and body protection		on according to the amount and langerous substance at the work place. Igainst chemicals
Hygiene measures	: Keep away from food Wash hands before b	and drink. reaks and at the end of workday. tilation, especially in confined areas. skin and the eyes.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Burning rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available



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Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

# SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	<ul> <li>No decomposition if stored and applied as directed.</li> <li>No decomposition if stored and applied as directed.</li> <li>Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Keep away from oxidizing agents, and acidic or alkaline products.</li> </ul>
Conditions to avoid Incompatible materials Hazardous decomposition products	<ul> <li>No data available</li> <li>No data available</li> <li>No decomposition if stored and applied as directed.</li> </ul>

# SECTION 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Harmful if swallowed or if inhaled.

Product:	
Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: Remarks: No data available
Componentes	

# Components:

Acute oral toxicity	: LD50 Oral (Rat): 1,120 mg/kg
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# Skin corrosion/irritation

Causes skin irritation.

# Product:

Remarks : May irritate skin.

# Serious eye damage/eye irritation

Causes serious eye irritation.



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# Product:

Remarks

May cause irreversible eye damage.

# Respiratory or skin sensitization

## Skin sensitization

Not classified based on available information.

### **Respiratory sensitization**

Not classified based on available information.

### Product:

Remarks : No data available

# Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

# Reproductive toxicity

Not classified based on available information.

# STOT-single exposure

Not classified based on available information.

# STOT-repeated exposure

Not classified based on available information.

# Aspiration toxicity

Not classified based on available information.

# Further information

Product:

Remarks

: No data available

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# **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxic	ity

# Product:

Toxicity to fish

Remarks: No data available

Toxicity to algae/aquatic



# **DNeasy Plant Pro Kit (50)**

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plants		Remarks: No data available				
Toxicity to microorganisms	:	Remarks: No data available				
Persistence and degradability						
Components:						
guanidine hydrochloride: Biodegradability	:	Method: OECD Test Guidel Remarks: According to the this product is not readily bi	results of tests of biodegradability			
Bioaccumulative potential						
Product: Bioaccumulation	:	Remarks: No data available				
Components:						
guanidine hydrochloride: Partition coefficient: n- octanol/water	:	log Pow: ca1.7 (68 °F / 20	) °C)			
<b>Mobility in soil</b> No data available						
Other adverse effects						
Product:						
Ozone-Depletion Potential	:	Substances Remarks: This product neith manufactured with a Class	Ozone - CAA Section 602 Class I			
Additional ecological information	:	No data available				

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	Send to a licensed waste management company. Dispose of as hazardous waste in compliance with national regulations.	local and
Contaminated packaging	Dispose of as unused product. Do not re-use empty containers.	

# **SECTION 14. TRANSPORT INFORMATION**

## International Regulations

## UNRTDG



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Not regulated as a dangerous good IATA-DGR

Not regulated as a dangerous good

## IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# Domestic regulation

49 CFR

Not regulated as a dangerous good

# SECTION 15. REGULATORY INFORMATION

# CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

# Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.



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# Maine Chemicals of High Concern

Product does not contain any listed chemicals

# TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### **SECTION 16. OTHER INFORMATION**

### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. -Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a



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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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