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Safety Data Sheet acc. to OSHA HCS

Printing date 03/19/2018 Reviewed on 03/19/2018

1 Identification

- · Product identifier
- · Product name: Polywax 1000 for ASTM D6352/D7169
- · Part number: VHG-POLYW-1000-1ML
- · Application of the substance / the mixture Reference material for laboratory use only
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

VHG Labs, Inc LGC Standards 276 Abby Road Manchester, NH 03103

UNITED STATES OF AMERICA

Tel:+1 (603) 622-7660 Fax:+1 (603) 622-5180

eMail: custsvc@vhglabs.com Web: www.vhglabs.com

· Information department:

Product safety department

eMail: sds-request@lgcgroup.com

· Emergency telephone number:

INFOTRAC 24-hour Emergency telephone number:

800-535-5053 (US & Canada); 352-323-3500 (International)

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms







GHS07 GHS02

- · Signal word Danger
- · Hazard-determining components of labeling:

carbon disulfide

· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 Health = 2Fire = 3

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.



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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Also contains substances at levels not considered to be hazardous.
- · Dangerous components:

CAS: 75-15-0 carbon disulfide RTECS: FF6650000 Flam. Liq. 2,

carbon disulfide 50-95%

♠ Flam. Liq. 2, H225; ♣ Repr. 2, H361; STOT RE 1, H372; ♠ Skin Irrit. 2,

H315; Eye Irrit. 2A, H319

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Rinse mouth. Do not induce vomiting.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

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Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:	
75-15-0 carbon disulfide	13 ppm
· PAC-2:	
75-15-0 carbon disulfide	160 ppm
· PAC-3:	
75-15-0 carbon disulfide	480 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

75-15-0 carbon disulfide

PEL Long-term value: 20 ppm

Ceiling limit value: 30; 100 ppm

30-min peak per 8-hr shift

REL Short-term value: 30 mg/m³, 10 ppm

Long-term value: 3 mg/m³, 1 ppm

Skin

TLV Long-term value: 3.13 mg/m³, 1 ppm

Skin, BEI

· Ingredients with biological limit values:

75-15-0 carbon disulfide

BEI 0.5 mg/g creatinine

Medium: urine Time: end of shift

Parameter: 2-Thioxothiazolidine-4-carboxylic acid (background, nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

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Protective gloves

- · Material of gloves Fluorocarbon rubber (Viton)
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and c · General Information	chemical properties
· Appearance:	
Form:	Liquid
Color:	Yellowish
· Odor:	Unpleasant
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-111.5 °C (-168.7 °F)
Boiling point/Boiling range:	46.3 °C (115.3 °F)
· Flash point:	-30 °C (-22 °F)
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	95 °C (203 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vaponixtures are possible.
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	60 Vol %
· Vapor pressure at 20 °C (68 °F):	400 hPa (300 mm Hg)
· Density at 20 °C (68 °F):	1.2632 g/cm³ (10.5414 lbs/gal)

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· Relative density	Not determined.		
· Vapor density	Not determined.		
· Evaporation rate	Not determined.		

· Solubility in / Miscibility with

Water at 20 °C (68 °F): 2.2 g/l

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

VOC content: 0.00 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity Stable under normal conditions.
- · Chemical stability Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid

Sources of ignition

Heat.

- · Incompatible materials: Strong oxidizing agents.
- · Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 va	alues that a	re relevant f	or class	sification:
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75-15-0 carbon disulfide

 Oral
 (LD50)
 1,200 mg/kg (rat)

 Inhalative
 LC50/2h
 25,000 mg/m3 (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Based on available data, the classification criteria are not met.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

75-15-0 carbon disulfide

EC50/48 h 2.1 mg/l (crustacean)

EC50/72h 21 mg/l (daphnia)

LC50/96 h 4 mg/l (fish)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Dispose in accordance with national regulations.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

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14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA

DOT ADR

· IMDG, IATA

UN1131

Carbon disulfide mixture

1131 Carbon disulfide mixture CARBON DISULPHIDE mixture

- · Transport hazard class(es)
- $\cdot DOT$





· Class 3 Flammable liquids

· Label 3, 6.1

 $\cdot ADR$



· Class 3 Flammable liquids

· Label 3+6.1

 \cdot IMDG



· Class 3 Flammable liquids

• **Label** 3/6.1

 \cdot IATA



· Class 3 Flammable liquids

· Label 3 (6.1)

· Packing group

· DOT, ADR, IMDG, IATA

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(Contd. of page 9) · Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 336 · EMS Number: F-E,S-D· Stowage Category D· Stowage Code SW2 Clear of living quarters. · Segregation Code SG63 Stow "separated longitudinally by an intervening complete compartment or hold from" Class 1. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code *Not applicable.* · Transport/Additional information: · Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · UN "Model Regulation": UN 1131 CARBON DISULFIDE MIXTURE, 3 (6.1), I

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

All ingredients are listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

All ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

All ingredients are listed.

· Chemicals known to cause developmental toxicity:

All ingredients are listed.

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

75-15-0 carbon disulfide

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

carbon disulfide

· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses

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are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

· Date of preparation / last revision 03/19/2018 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Repr. 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

· Sources

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· Data compared to the previous version altered. All sections have been updated.

US