

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHILL CLEAN AEROSOL, M/M
Recommended Use Cleaning agent
Information on Manufacturer
 CHEMSEARCH DIV. OF NCH CORP.
 BOX 152170
 IRVING, TX 75015

Product Code 5235
Chemical Nature Amine blend
Emergency Telephone Number
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
 Warning
 Causes skin irritation
 Severe eye irritation
 May cause allergic skin reaction
 May be harmful if inhaled
 May be harmful if swallowed
 Contents under pressure

Color Colorless **Physical State** Liquid **Odor** Soapy
Potential Health Effects
Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry Inhalation, Skin Absorption, Ingestion.
Acute Effects
Eyes Severe eye irritant.
Skin Causes skin irritation. May be absorbed through the skin in harmful amounts. May cause allergic skin reaction.
Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause headache and dizziness.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes headache, drowsiness or other effects to the central nervous system.
Chronic Effects Liver and kidney injuries may occur. May cause skin sensitization in some individuals.
Target Organ Effects Skin, Respiratory system, Liver, Kidney, Bone Marrow, Central nervous system, Heart.
Aggravated Medical Conditions Skin disorders. Respiratory disorders. Liver disorders. Kidney disorders. Neurological disorders. Central nervous system.
Potential Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Triethanolamine	102-71-6
Butane	106-97-8
Polyethylene-polypropylene glycol	9003-11-6

4. FIRST AID MEASURES

General Advice Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, mist or gas.
Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention if symptoms occur.
Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Not combustible **Method** Not applicable
Autoignition Temperature No information available
Flammability Limits in Air Mixture **Upper** 8.4 **Lower** 1.8
Suitable Extinguishing Media
 Water spray. Carbon dioxide (CO2). Foam. Alcohol-resistant foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific Hazards Arising from the Chemical
 Material can create slippery conditions. Flame extension: 0 inches / 0 cm and Burnback: 0 inches / 0 cm

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health	2	Flammability	1	Instability	0
HMIS	Health	2	Flammability	1	Instability	0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)
Methods for Cleaning Up Pick up and transfer to properly labelled containers.
Neutralizing Agent Not applicable

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, mist or gas.			
Storage	Store in original container. Keep container tightly closed in a dry and well-ventilated place. Do not freeze.			
Storage Temperature	Minimum	35°F / 2°C	Maximum	120°F / 49°C
Storage Conditions	Indoor	X	Outdoor	
			Heated	Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Triethanolamine	TWA: 5 mg/m ³	no data available	no data available
Butane	TWA: 1000 ppm	no data available	TWA: 1900 mg/m ³ TWA: 800 ppm
Polyethylene-polypropylene glycol	No data available	no data available	no data available

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin Protection

Impervious gloves.

Respiratory Protection

Use NIOSH approved respiratory protection.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Colorless	Odor	Soapy
Appearance	Transparent	pH	11.8
Specific Gravity	0.98	Bulk Density	8.16
Evaporation Rate	4.8 (Butyl acetate=1)	Percent Volatile (Volume)	96
VOC Content (%)	5	Vapor Pressure	42 mmHg @ 70 °F
Vapor Density	0.6	Solubility	Partly soluble
Boiling Point/Range	212°F / 100°C		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Hazardous polymerization does not occur .

Conditions to Avoid

Heat, flames, and sparks.

Incompatible Products

Strong oxidizing agents. Acids. Bases. Aldehydes. Acid anhydrides. Highly halogenated compounds.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx).

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

No information available

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Triethanolamine	4190 mg/kg (Rat)	2000 mg/kg (Rabbit)	no data available	no data available	no data available
Butane	no data available	no data available	658 g/m ³ (Rat) 4 h	no data available	no data available
Polyethylene-polypropylene glycol	5700 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Triethanolamine	no data available	Skin sensitization	no data available	no data available	Bone marrow, liver, kidney, CNS
Butane	no data available	no data available	no data available	no data available	CNS, liver, heart
Polyethylene-polypropylene glycol	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product

Component	ACGIH	IARC	NTP	OSHA	Other
Triethanolamine	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Polyethylene-polypropylene glycol	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Triethanolamine	EC50= 169 mg/L Scenedesmus subspicatus 96 h EC50= 216 mg/L Scenedesmus subspicatus 72 h	LC50 450 - 1000 mg/L Lepomis macrochirus 96 h LC50= 11800 mg/L Pimephales promelas 96 h	EC50 > 10000 mg/L 30 min	EC50 = 1386 mg/L 24 h	-2.53
Butane	no data available	no data available	no data available	no data available	2.89
Polyethylene-polypropylene glycol	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability

No information available

Bioaccumulation No information available
 Mobility No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of as hazardous waste in compliance with local and national regulations
 Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer commodity
 Hazard Class ORM-D
 Description Consumer commodity ,ORM-D,

TDG

Proper shipping name Aerosols
 Hazard Class 2.2
 UN-No UN1950
 Description AEROSOLS,2.2,UN1950 LTD. QTY.

ICAO

UN-No UN1950
 Proper Shipping Name Aerosols
 Hazard Class 2.2
 Shipping Description Aerosols,UN1950 LTD. QTY.

IATA

UN-No UN1950
 Proper Shipping Name Aerosols, non-flammable
 Hazard Class 2.2
 ERG Code 2L
 Shipping Description UN1950,Aerosols, non-flammable,2.2 LTD. QTY.

IMDG/IMO

Proper Shipping Name Aerosols
 Hazard Class 2
 UN-No UN1950
 EmS No. F-D, S-U
 Shipping Description UN1950, Aerosols,2.2 LTD. QTY.

15. REGULATORY INFORMATION

Inventories

TSCA Does not Comply
 DSL Does not Comply

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Triethanolamine	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Polyethylene-polypropylene glycol	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases, D2B Toxic materials .



16. OTHER INFORMATION

Prepared By Kamal Singh
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 Reason for Revision No information available
 Glossary No information available
 List of References No information available

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