



STER-AHOL® Aerosol

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

VELTEK ASSOCIATES, INC.

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Supersedes: 06/08/2018

Version: 2.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : STER-AHOL® Aerosol
 Product code : SDS VEL-109A

1.2. Recommended use and restrictions on use

Recommended use : Disinfectant
 Restrictions on use : For professional use only

1.3. Supplier

Veltek Associates, Inc.
 15 Lee Blvd
 Malvern, PA 19355-1234 USA
 Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
 E-mail: vai@sterile.com

In Canada distributed by:
 Canada Clean Room (CCR)
 20 Cope Dr.
 Kanata, ON K2M 2V8, Canada
 Telephone: (888)595-8070

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
 1-866-928-0789 (toll free)
 Canada: 1-800-579-7421 (toll free)
 Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Simple Asphyxiant	May displace oxygen and cause rapid suffocation
Flammable aerosol Category 1	H222 Extremely flammable aerosol
Serious eye damage/eye irritation Category 2A	H319 Causes serious eye irritation
Specific target organ toxicity (single exposure) Category 1	H370 Causes damage to organs (optic nerve, central nervous system)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H222 - Extremely flammable aerosol
 H319 - Causes serious eye irritation
 H370 - Causes damage to organs (optic nerve, central nervous system)
 May displace oxygen and cause rapid suffocation

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 - Do not spray on an open flame or other ignition source.
 P251 - Pressurized container: Do not pierce or burn, even after use.
 P260 - Do not breathe the vapors, spray, mist.
 P264 - Wash hands thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P280 - Wear eye protection, protective gloves, protective clothing.

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention.
P307+P311 - If exposed: Call a poison center/doctor
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 - Dispose of contents/container to an authorized waste collection point

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Ethanol	(CAS-No.) 64-17-5	59 - 65	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Isopropanol	(CAS-No.) 67-63-0	3.2 - 3.8	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methanol	(CAS-No.) 67-56-1	3.1 - 3.5	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
Nitrogen	(CAS-No.) 7727-37-9	< 1	Simple Asphy

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Do not give an unconscious person anything to drink. Rinse mouth. Obtain immediate medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Causes serious eye irritation. In high concentrations may cause asphyxiation. Causes damage to organs (optic nerve, central nervous system). Ingestion may cause irritation of the gastrointestinal tract. May be harmful if swallowed.
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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Extremely flammable aerosol. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.
Explosion hazard	: May form flammable/explosive vapor-air mixture. Pressurized container: may burst if heated.

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5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Keep upwind. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Remove all sources of ignition. Ventilate area. Do not breathe vapors. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Remove all sources of ignition. Use only non-sparking tools. Ventilate area. Do not breathe vapors. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Liquid: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Pressurized container: may burst if heated. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Use only non-sparking tools. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Avoid contact with skin, eyes and clothing.
- Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep away from open flames, hot surfaces and sources of ignition.
- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Store locked up. Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container tightly closed. Keep in fireproof place.
- Incompatible materials : Strong acids. Strong alkalis. Oxidizing agents. Metals. Metallic salts. Halogens. Peroxides.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopropanol (67-63-0)		
ACGIH	Local name	2-Propanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	400 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair

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Isopropanol (67-63-0)		
ACGIH	Biological Exposure Indices (BEI)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Ethanol (64-17-5)		
ACGIH	Local name	Ethanol
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Methanol (67-56-1)		
ACGIH	Local name	Methanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
ACGIH	Biological Exposure Indices (BEI)	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: End of shift - Notations: B, Ns
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Nitrogen (7727-37-9)		
ACGIH	Local name	Nitrogen
ACGIH	Remark (ACGIH)	TLV® Basis: Simple Asphyxiant
ACGIH	Regulatory reference	ACGIH 2019

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is below occupational exposure limits (where available). Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wash hands thoroughly after handling.

Hand protection:

Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

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Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Colorless
Odor	: Mild Alcohol
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 172 °F (77.78 °C)
Flash point	: 61.9 °F (16.6 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 59.3 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: 0.882 - 0.892 (20°C) (Water = 1)
Solubility	: Water: Miscible
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 3.3 - 19 vol % Ethanol
Explosive properties	: Vapors may form explosive mixture with air.
Oxidizing properties	: Not oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7). Extremely flammable aerosol.

10.3. Possibility of hazardous reactions

Containers may rupture when heated. Vapors may form explosive mixture with air.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong alkalis. Oxidizing agents. Metals. Metallic salts. Halogens. Peroxides.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Isopropanol (67-63-0)	
LD50 oral, rat	5840 mg/kg
LD50 dermal, rat	16.4 ml/kg
LC50 inhalation, rat (ppm)	> 10000 ppm - 6 Hours

Ethanol (64-17-5)	
LD50 oral, rat	10470 mg/kg
LC50 inhalation, rat (mg/l)	117 - 125 mg/l - 4 Hours

Methanol (67-56-1)	
LD50 oral, rat	> 1187 mg/kg (35% Aqueous solution)
LD50 dermal, rabbit	17100 mg/kg
LC50 inhalation, rat (mg/l)	43.68 mg/l - 6 Hours

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Isopropanol (67-63-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : Causes damage to organs (optic nerve, central nervous system).

Isopropanol (67-63-0)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

Methanol (67-56-1)	
Specific target organ toxicity – single exposure	Causes damage to organs (optic nerve, central nervous system).

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Symptoms/effects : Causes serious eye irritation. In high concentrations may cause asphyxiation. Causes damage to organs (optic nerve, central nervous system). Ingestion may cause irritation of the gastrointestinal tract. May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Isopropanol (67-63-0)	
LC50 fish	9640 mg/l - 96 Hours (Pimephales promelas)
EC50 Daphnia	> 10000 mg/l - 48 Hours (Daphnia magna)
NOEC chronic algae	1800 mg/l - 7 days (Scenedesmus quadricauda)

Ethanol (64-17-5)	
LC50 fish	11200 mg/l (calculated value)
EC50 Daphnia	5012 mg/l (calculated value) (freshwater)
EC50 Daphnia 2	857 mg/l (calculated value) (marine water)

Methanol (67-56-1)	
LC50 fish	15400 mg/l 96 Hours - Lepomis macrochirus

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Methanol (67-56-1)	
EC50 Daphnia	18260 mg/l 48 Hours - Daphnia magna

12.2. Persistence and degradability

STER-AHOL® Aerosol	
Persistence and degradability	Rapidly degradable.

Isopropanol (67-63-0)	
Persistence and degradability	Expected to be readily biodegradable.

12.3. Bioaccumulative potential

STER-AHOL® Aerosol	
Bioaccumulative potential	Low bioaccumulation potential.

Isopropanol (67-63-0)	
Bioconcentration factor (BCF REACH)	3
Log Pow	0.05

Ethanol (64-17-5)	
Bioconcentration factor (BCF REACH)	3

Methanol (67-56-1)	
Bioconcentration factor (BCF REACH)	< 10
Log Kow	-0.74

12.4. Mobility in soil

STER-AHOL® Aerosol	
Mobility in soil	Very mobile

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Do not pierce or burn, even after use. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1

UN-No.(DOT) : UN1950

Proper Shipping Name (DOT) : Aerosols
flammable, (each not exceeding 1 L capacity)

Transport hazard class(es) (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT) : 2.1 - Flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : None

DOT Packaging Bulk (49 CFR 173.xxx) : None

DOT Special Provisions (49 CFR 172.102) : N82

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DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A
DOT Vessel Stowage Other	: 25, 87, 126
Emergency Response Guide (ERG) Number	: 126
Other information	: No supplementary information available.
Special transport precautions	: No special precautions required.

Transportation of Dangerous Goods

Transport document description	: 1950 AEROSOLS, 2.1
UN-No. (TDG)	: 1950
Proper Shipping Name (Transportation of Dangerous Goods)	: AEROSOLS
TDG Primary Hazard Classes	: 2.1 - Class 2.1 - Flammable Gas.

Transport by sea

Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.1
UN-No. (IMDG)	: 1950
Proper Shipping Name (IMDG)	: AEROSOLS
Class (IMDG)	: 2 - Gases

Air transport

Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1
UN-No. (IATA)	: 1950
Proper Shipping Name (IATA)	: Aerosols, flammable
Class (IATA)	: 2

SECTION 15: Regulatory information

15.1. US Federal regulations

STER-AHOL® Aerosol	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
Isopropanol (67-63-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
Ethanol (64-17-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Methanol (67-56-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb
Nitrogen (7727-37-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

No additional information available

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Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

⚠ WARNING: This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Isopropanol(67-63-0)	U.S. - New Jersey - Right to Know Hazardous Substance List
Ethanol(64-17-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
Methanol(67-56-1)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Nitrogen(7727-37-9)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 06/11/2019
Data sources : US OSHA HazCom (GHS) 25 May 2012.
Other information : This chemical is a pesticide product registered by the United States Environmental Protection Agency (68959-3) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is KEEP OUT OF REACH OF CHILDREN, WARNING. The pesticide label also includes other important information, including directions for use. In Canada, this product is a drug product registered with Health Canada. Canada DIN #02351226.

Full text of H-phrases:

H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H370	Causes damage to organs

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	DNEL (Derived No Effect Level)
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)

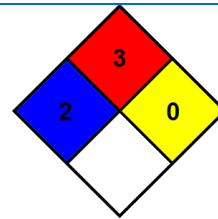
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	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

- Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
- Flammability : 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

Section	Changed item	Change	Comments
3	Composition/Information on ingredients	Modified	
8	Exposure controls / Personal protection equipment	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
15	Regulatory information	Modified	

SDS US (GHS HazCom 2012)

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This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.