



# STER-AHOL®

## 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: 4.1

### SECTION 1: Identification

#### 1.1. Identification

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

#### 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)  
 200 Terence Matthews  
 Kanata, ONT K2M 2C6, 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

Flammable liquids Category 2 H225 Highly flammable liquid and vapor  
 Serious eye damage/eye irritation Category 2 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) :

H225 - Highly flammable liquid and vapor  
 H319 - Causes serious eye irritation  
 H370 - Causes damage to organs (optic nerve, central nervous system)

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks  
 P233 - Keep container tightly closed.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe vapors.  
 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.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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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  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P307+P311 - If exposed: Call a poison center/doctor  
P370+P378 - In case of fire: Use alcohol resistant foam, Dry powder, carbon dioxide (CO<sub>2</sub>), Water spray to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
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 - 3.6	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

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. Causes damage to organs (optic nerve, central nervous system). Ingestion may cause irritation of the gastrointestinal tract. May be harmful if swallowed.

### 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 : Highly flammable liquid and vapor. 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.

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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 : 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. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Use only non-sparking tools. Take precautionary measures against static discharge. 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

- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. 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. Keep out of direct sunlight.
- 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
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 <sup>3</sup> )	980 mg/m <sup>3</sup>

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Isopropanol (67-63-0)		
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 <sup>3</sup> )	1900 mg/m <sup>3</sup>
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 <sup>3</sup> )	260 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

### 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:

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.

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### 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 (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). Highly flammable liquid and vapor.

#### 10.3. Possibility of hazardous reactions

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.

### 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

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<b>Isopropanol (67-63-0)</b>	
LC50 inhalation, rat (ppm)	> 10000 ppm - 6 Hours
<b>Ethanol (64-17-5)</b>	
LD50 oral, rat	10470 mg/kg
LC50 inhalation, rat (mg/l)	117 - 125 mg/l - 4 Hours
<b>Methanol (67-56-1)</b>	
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

<b>Isopropanol (67-63-0)</b>	
IARC group	3 - Not classifiable

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

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

<b>Methanol (67-56-1)</b>	
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. 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

<b>Isopropanol (67-63-0)</b>	
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)
<b>Ethanol (64-17-5)</b>	
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)
<b>Methanol (67-56-1)</b>	
LC50 fish	15400 mg/l 96 Hours - Lepomis macrochirus
EC50 Daphnia	18260 mg/l 48 Hours - Daphnia magna

### 12.2. Persistence and degradability

<b>STER-AHOL®</b>	
Persistence and degradability	Rapidly degradable.
<b>Isopropanol (67-63-0)</b>	
Persistence and degradability	Expected to be readily biodegradable.

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### 12.3. Bioaccumulative potential

STER-AHOL®	
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®	
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 : 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 : UN1170 Ethanol, 3, II

UN-No.(DOT) : UN1170

Proper Shipping Name (DOT) : Ethanol

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 24, IB2, T4, TP1

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b;150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : A

Other information : No supplementary information available.

Special transport precautions : No special precautions required.

### Transportation of Dangerous Goods

Transport document description : UN1170 ETHANOL, 3, II

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UN-No. (TDG)	: UN1170
Proper Shipping Name (Transportation of Dangerous Goods)	: ETHANOL
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger
TDG Special Provisions	: 150
Explosive Limit and Limited Quantity Index	: 1 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L

### Transport by sea

Transport document description (IMDG)	: UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II
UN-No. (IMDG)	: 1170
Proper Shipping Name (IMDG)	: ETHANOL (ETHYL ALCOHOL)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger

### Air transport

Transport document description (IATA)	: UN 1170 Ethanol, 3, II
UN-No. (IATA)	: 1170
Proper Shipping Name (IATA)	: Ethanol
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>STER-AHOL®</b>	
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)
<b>Isopropanol (67-63-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
<b>Ethanol (64-17-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Methanol (67-56-1)</b>	
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

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

<b>Ethanol (64-17-5)</b>
Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations



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**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](http://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

### SECTION 16: Other information

Revision date : 07/08/2019  
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 (68959-1) 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, DANGER PELIGRO. The pesticide label also includes other important information, including directions for use. Canada DIN #02351250.

#### Full text of H-phrases:

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)
	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)

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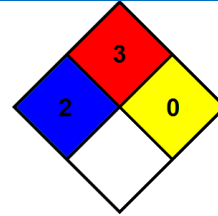
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vPvB (very Persistent and very Bioaccumulative)

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 : 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

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.*