

SAFETY DATA SHEET

1. Identification

Product identifier	SEALANT 1X	
Other means of identification		
Product code	800-0023	
Recommended use	Industrial Leak Sealant.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	Team Industrial Services, Inc.	
Address	200 Hermann Drive, Alvin, Texas 77511	
Telephone	Not available.	
E-mail	Not available.	
Emergency phone number	CHEMTREC - 24 HOURS:	800-424-9300 (USA)
	International:	+1 703-527-3887 (Collect)

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Carcinogenicity (inhalation)	Category 1A
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer by inhalation. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the workplace. Wash thoroughly after handling. Avoid release to the environment.
Response	If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Aluminum hydroxide	21645-51-2	25-50
Phenol, polymer with formaldehyde	9003-35-4	10-25
Quartz	14808-60-7	10-25
Graphite	7782-42-5	5-10
Carbon	7440-44-0	1-5
Ethanol	64-17-5	1-5
Refractories, Fibers, Aluminosilicate	142844-00-6	1-5
m-Cresol	108-39-4	1-5
p-Cresol	106-44-5	1-5
2,6-Xylenol	576-26-1	<1
Formaldehyde	50-00-0	<1
Hexamethylenetetramine	100-97-0	<1
Methanol	67-56-1	<1
O-Ethylphenol	90-00-6	<1
Phenol	108-95-2	< 1

Composition comments All concentrations are in percent by weight.

4. First-aid measures

Inhalation

Move into fresh air and keep at rest. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
When cured: Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact

Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Obtain medical attention and take along these instructions.

Most important symptoms/effects, acute and delayed

Symptoms include redness, itching and pain. May cause permanent damage if eye is not immediately irrigated. Sensitization. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Extinguish with carbon dioxide or dry powder.
Unsuitable extinguishing media	No restrictions known.
Specific hazards arising from the chemical	Solvent vapors may form explosive mixtures with air. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire fighting equipment/instructions	Ventilate closed spaces before entering them. Containers should be cooled with water to prevent vapor pressure build up. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Evacuate area and fight fire from a safe distance. Stop leak if you can do so without risk. Move containers from fire area if you can do it without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Will burn if involved in a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Ensure adequate ventilation. Do not get in eyes. Avoid inhalation of vapors or mists. Avoid contact with skin. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Sweep up or vacuum up spillage and collect in suitable container for disposal. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in Section 13 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Environmental manager must be informed of all major spillages.

7. Handling and storage

Precautions for safe handling	Should be handled in closed systems, if possible. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Persons susceptible for allergic reactions should not handle this product. Do not get in eyes. Avoid inhalation of vapors or mists. Avoid contact with skin. Do not smoke and do not spray near a naked flame or other sources of ignition. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities	Keep away from heat, spark, open flames and other sources of ignition. Keep away from sources of ignition - No smoking. Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
	TWA	0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Ethanol (CAS 64-17-5)	PEL	1900 mg/m ³	Respirable fraction. Total dust.
		1000 ppm	
Graphite (CAS 7782-42-5)	PEL	5 mg/m ³	Respirable fraction. Total dust.
		15 mg/m ³	
m-Cresol (CAS 108-39-4)	PEL	22 mg/m ³	Respirable fraction. Total dust.
		5 ppm	
p-Cresol (CAS 106-44-5)	PEL	22 mg/m ³	Respirable fraction. Total dust.
		5 ppm	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Carbon (CAS 7440-44-0)	TWA	15 mppcf	
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3 0.1 mg/m3 2.4 mppcf	Total dust. Respirable. Respirable.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminum hydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm	
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
m-Cresol (CAS 108-39-4)	TWA	20 mg/m3	Inhalable fraction and vapor.
p-Cresol (CAS 106-44-5)	TWA	20 mg/m3	Inhalable fraction and vapor.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Carbon (CAS 7440-44-0)	TWA	2.5 mg/m3	Respirable.
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm	
Formaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm	
	TWA	0.016 ppm	
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
m-Cresol (CAS 108-39-4)	TWA	10 mg/m3 2.3 ppm	
p-Cresol (CAS 106-44-5)	TWA	10 mg/m3 2.3 ppm	
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	3 fibers/cm3	Fiber.
		3 fibers/cm3	Dust.
		5 mg/m3	fibers, total dust
		5 mg/m3	Fiber, total

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

m-Cresol (CAS 108-39-4) Can be absorbed through the skin.
p-Cresol (CAS 106-44-5) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

m-Cresol (CAS 108-39-4) Skin designation applies.
p-Cresol (CAS 106-44-5) Skin designation applies.

US - Tennessee OELs: Skin designation

m-Cresol (CAS 108-39-4) Can be absorbed through the skin.
p-Cresol (CAS 106-44-5) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

m-Cresol (CAS 108-39-4) Can be absorbed through the skin.
p-Cresol (CAS 106-44-5) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

m-Cresol (CAS 108-39-4)
p-Cresol (CAS 106-44-5)

Can be absorbed through the skin.
Can be absorbed through the skin.

Appropriate engineering controls Mix and prepare in a place with efficient exhaust ventilation. Observe occupational exposure limits and minimize the risk of exposure. An eye wash and safety shower must be available in the immediate work area.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear suitable gloves. Butyl rubber gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other Wear appropriate clothing to prevent possibility of skin contact.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance Black pliable semi-solid with phenolic odor.

Physical state Liquid.

Form Pliable semi-solid.

Color Black.

Odor Phenolic.

Odor threshold 0.003 - 5 ppm (m-Cresol)

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Slightly.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature > 1200 °F (> 648.9 °C) When cured

Viscosity Not available.

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Flames and sparks. Avoid static discharge and uncontrolled exposure to high temperatures. Contact with incompatible materials.
Incompatible materials	Strong oxidizers, strong acids, and strong bases. Strong reducing agents.
Hazardous decomposition products	Aluminum oxides. Carbon oxides. Formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Inhalation	In high concentrations, vapors may be irritating to the respiratory system. May cause lung edema. When cured: Vapors, spray or mists may be very irritating or corrosive to the respiratory system.
Skin contact	Causes skin irritation. May cause an allergic skin reaction. The product contains components which may penetrate skin.
Eye contact	Causes severe eye damage.
Ingestion	May be harmful if swallowed. May cause central nervous system depression. May cause blood damage.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms include redness, itching and pain. May cause permanent damage if eye is not immediately irrigated. Sensitization. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity May be harmful if swallowed.

Components	Species	Test Results
Aluminum hydroxide (CAS 21645-51-2)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Carbon (CAS 7440-44-0)		
Acute		
<i>Oral</i>		
LD50	Rat	> 10000 mg/kg
Ethanol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 g/m ³ , 4 Hours
<i>Oral</i>		
LD50	Rat	7000 - 11000 mg/kg
Formaldehyde (CAS 50-00-0)		
Acute		
<i>Inhalation</i>		
LC50	Rat	0.48 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	100 mg/kg
m-Cresol (CAS 108-39-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	620 mg/kg
<i>Oral</i>		
LD50	Rat	242 mg/kg

Components	Species	Test Results
p-Cresol (CAS 106-44-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	300 mg/kg
<i>Oral</i>		
LD50	Rat	207 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization		
ACGIH sensitization		
Formaldehyde (CAS 50-00-0)		Dermal sensitization Respiratory sensitization
Respiratory sensitization	No data available.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Not classified. Contains a component that is suspected of causing genetic defects.	
Carcinogenicity	May cause cancer by inhalation.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Formaldehyde (CAS 50-00-0)		1 Carcinogenic to humans.
Quartz (CAS 14808-60-7)		1 Carcinogenic to humans.
NTP Report on Carcinogens		
Formaldehyde (CAS 50-00-0)		Known To Be Human Carcinogen.
Quartz (CAS 14808-60-7)		Known To Be Human Carcinogen.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Formaldehyde (CAS 50-00-0)		Cancer
Reproductive toxicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Chronic effects	Danger of serious damage to health by prolonged exposure. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. When cured: Phenolic resin releases formaldehyde and formaldehyde has carcinogenic potential and is a known skin and respiratory sensitizer.	

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Aquatic		
Fish	LC50	Pimephales promelas 13480 mg/l, 96 hours
Formaldehyde (CAS 50-00-0)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia pulex) 4.3 - 7.8 mg/l, 48 hours
Fish	LC50	Striped bass (Morone saxatilis) 10.302 - 16.743 mg/l, 96 hours
m-Cresol (CAS 108-39-4)		
Aquatic		
Crustacea	EC50	Scud (Gammarus fasciatus) 7 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 8.9 mg/l, 96 hours

Components	Species	Test Results
p-Cresol (CAS 106-44-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 7.7 mg/l, 48 hours
Fish	LC50	Fish (Lepidocephalichthyes guntea) 6.15 - 7.96 mg/l, 96 hours
Persistence and degradability	No data available.	
Bioaccumulative potential		
Partition coefficient n-octanol / water (log Kow)		
Formaldehyde (CAS 50-00-0)		0.35
m-Cresol (CAS 108-39-4)		1.96
p-Cresol (CAS 106-44-5)		1.94
Mobility in soil	Expected to be slightly to moderately mobile in soil.	
Mobility in general	The product is insoluble or slightly soluble in water.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.	

13. Disposal considerations

Disposal instructions	Dispose of this material and its container to hazardous or special waste collection point. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Hazardous waste code	D026: Waste Cresol When cured: Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde (CAS 50-00-0)	Cancer
	Skin sensitization
	Respiratory sensitization
	Eye irritation
	Skin irritation
	respiratory tract irritation
	Acute toxicity
	Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Formaldehyde (CAS 50-00-0)	LISTED
m-Cresol (CAS 108-39-4)	LISTED
p-Cresol (CAS 106-44-5)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
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Formaldehyde	50-00-0	100	500		
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SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
m-Cresol	108-39-4	1-5
p-Cresol	106-44-5	1-5
Formaldehyde	50-00-0	<1

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Formaldehyde (CAS 50-00-0)
 m-Cresol (CAS 108-39-4)
 p-Cresol (CAS 106-44-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Formaldehyde (CAS 50-00-0)

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations**US. Massachusetts RTK - Substance List**

Carbon (CAS 7440-44-0)
 Ethanol (CAS 64-17-5)
 Formaldehyde (CAS 50-00-0)
 Graphite (CAS 7782-42-5)
 m-Cresol (CAS 108-39-4)
 p-Cresol (CAS 106-44-5)
 Quartz (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Carbon (CAS 7440-44-0)
 Ethanol (CAS 64-17-5)
 Formaldehyde (CAS 50-00-0)
 Graphite (CAS 7782-42-5)
 m-Cresol (CAS 108-39-4)
 p-Cresol (CAS 106-44-5)
 Quartz (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Carbon (CAS 7440-44-0)
 Ethanol (CAS 64-17-5)
 Formaldehyde (CAS 50-00-0)
 Graphite (CAS 7782-42-5)
 m-Cresol (CAS 108-39-4)
 p-Cresol (CAS 106-44-5)
 Quartz (CAS 14808-60-7)

US. Rhode Island RTK

Formaldehyde (CAS 50-00-0)
 m-Cresol (CAS 108-39-4)
 p-Cresol (CAS 106-44-5)

US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0)

Methanol (CAS 67-56-1)

Quartz (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 26-May-2015

Revision date 08-February-2016

Version # 02

Further information HMIS® is a registered trade and service mark of the NPCA.
J - Goggles, Gloves, Apron, Dust, Vapor Respirator

HMIS® ratings Health: 3*
Flammability: 1
Physical hazard: 0
Personal protection: J

References ACGIH
EPA: Acquire database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer Team Industrial Services, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

This SDS contains revisions in the following section(s): 1, 2, 3, 4, 6, 7, 8, 11, 12, 13, 14, 15, 16.