

## SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

### 1. Identification

**Product identifier:** ACRIFIX® 1S 0116

**Other means of identification**

None.

**Recommended restrictions**

**Recommended use:** Adhesive

**Restrictions on use:** None known.

**Manufacturer/Importer/Distributor Information**

Company Name : Roehm America LLC  
299 Jefferson Road  
Parsippany, NJ 07054  
USA

Telephone : +1 800-225-0172

E-mail : product-regulatory-services@roehm.com

**Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 703 527 3887 (CHEMTREC WORLD)

### 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable liquids Category 2

**Health Hazards**

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation) Category 4

Serious eye irritation Category 2A

Specific Target Organ Toxicity -  
Single Exposure Category 3<sup>1</sup>.

**Target Organs**

1. Respiratory tract irritation.

**Environmental Hazards**

Acute hazards to the aquatic  
environment Category 3

Chronic hazards to the aquatic environment

Category 3

## Label Elements

### Hazard Symbol:



### Signal Word:

Danger

### Hazard Statement:

Highly flammable liquid and vapor.  
Harmful if swallowed.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.

### Precautionary Statements

#### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

#### Response:

IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use alcohol resistant foam for extinction. In case of fire: Use fire extinguishing powder to extinguish. In case of fire: Use carbon dioxide for extinction.

#### Storage:

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

#### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Hazard(s) not otherwise classified (HNOC):

None.

## 3. Composition/information on ingredients

## Mixtures

### 4. First-aid measures

#### Description of necessary first-aid measures

<b>General information:</b>	First aider needs to protect himself. Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
<b>Inhalation:</b>	If inhaled, remove to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get immediate medical advice/attention.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops or persists. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes.
<b>Eye contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.
<b>Ingestion:</b>	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical advice/attention. Never give anything by mouth to an unconscious person.
<b>Personal Protection for First-aid Responders:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear., Containers can build up pressure if exposed to heat (fire)., Cool with water spray.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** Skin irritation Causes eye irritation. cough, sneezing. confusion  
Sensitization Health injuries may be delayed.

**Hazards:** Vapours in higher concentrations may cause narcotic effects. May cause central nervous system effects. Liver and kidney injuries may occur.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

### 5. Fire-fighting measures

**General Fire Hazards:** Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Dry powder Carbon dioxide Alcohol resistant foam.

**Unsuitable extinguishing media:**

Water, dry chemicals on a bicarbonate basis

**Specific hazards arising from the chemical:**

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition and nitric oxides.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:**

Normal measures for preventive fire protection. Keep away from sources of ignition - No smoking. In case of fire cool endangered containers with water. Take precautionary measures against static discharges. Use only explosion-proof equipment. Vapours can form explosive mixtures with air.

**Special protective equipment for fire-fighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Wear personal protective equipment; see section 8. Handle in accordance with good industrial hygiene and safety practice. Assure sufficient ventilation. Avoid contact with eyes, skin, and clothing. Keep away from sources of ignition - No smoking. Avoid breathing dust/mist/vapors. Use breathing apparatus if exposed to vapors/dust/mist/aerosol.

**Accidental release measures:**

Evacuate area and do not approach spilled product. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). For personal protection see section 8.

**Methods and material for containment and cleaning up:**

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

**Environmental Precautions:**

Contain spilled product and prevent any contamination of soil, the sewer system or water bodies. Do not allow to sink into ground water, sewers or into surface water. Issue an immediate alarm report to the company environmental protection department if the product unintentionally leaves the production area. If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. Handling and storage

### Handling

**Technical measures (e.g. Local and general ventilation):**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

**Safe handling advice:** Keep container closed. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin, and clothing. When using do not eat, drink or smoke. Wash thoroughly after handling. Avoid breathing mist or vapor. Use only with adequate ventilation. Vapours may form explosive mixtures with air. Containers can burst violently when heated, due to excess pressure build-up. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Container hazardous when empty. Follow all SDS/label precautions even after the container is emptied because it may retain product residues. **DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.** Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. A safety shower and eye wash fountain should be readily available.

**Contact avoidance measures:** No data available.

**Hygiene measures:** Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Private clothes and working clothes should be kept separately. Cleanse and apply cream to skin after work.

## Storage

**Safe storage conditions:** Observe prohibition against storing together! Keep in the original container at a temperature not exceeding 30 °C (86 °F). Keep container closed. Store in a well-ventilated place. Improper disposal or re-use of this container may be dangerous and illegal.

**Safe packaging materials:** No data available.

## 8. Exposure controls/personal protection

### Control Parameters

### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
ethyl formate	STEL	100 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	100 ppm      300 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm      300 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
nitroethane	TWA	100 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	100 ppm      310 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm      310 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
Ethyl acetate	TWA	400 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	400 ppm      1,400 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)

	PEL	400 ppm	1,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
butan-1-ol; n-butanol	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)
	Ceil_Time	50 ppm	150 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm	300 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

## Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
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### Appropriate Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection:

Use safety glasses (ANSI Z87.1 or approved equivalent).

#### Skin Protection

##### Hand Protection:

Material: butyl rubber gloves (minimal thickness 0.3 mm)

Break-through time: 30 min

Guideline: EN 374

Additional Information: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use., Selection of protective gloves to meet the requirements of specific workplaces.

#### Skin and Body Protection:

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

#### Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

#### Hygiene measures:

Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Private clothes and working clothes should be kept separately. Cleanse and apply cream to skin after work.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid viscous
<b>Color:</b>	No data available.
<b>Odor:</b>	Fruity
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	54 °C (1,013 hPa) 129 °F
<b>Flash Point:</b>	< -1 °C < 30 °F
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	Not applicable
<b>Explosive limit - upper (%):</b>	13.5 %(V) (ethyl formate)
<b>Explosive limit - lower (%):</b>	2.7 %(V) (ethyl formate) 3.4 %(V) (nitroethane)
<b>Vapor pressure:</b>	approx. 260 hPa (20 °C) (ethyl formate) (68 °F) (ethyl formate) approx. 20.8 hPa (20 °C) (nitroethane) (68 °F) (nitroethane)
<b>Vapor density (air=1):</b>	> 1 20 °C 68 °F
<b>Density:</b>	0.998 g/cm <sup>3</sup> (20 °C) (68 °F)
<b>Relative density:</b>	No data available.
<b>Solubility in Water:</b>	118 g/l (20 °C) (ethyl formate) 45 g/l (20 °C) (nitroethane)
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Self Ignition Temperature:</b>	440 °C (ethyl formate) Auto Ignition Temperature 824 °F 410 °C (nitroethane) Auto Ignition Temperature 770 °F
<b>Decomposition Temperature:</b>	The following applies to the component nitroethane: May explode if heated. Shock and heat sensitive.
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	approx. 650 - 900 mPa.s (20 °C)   (68 °F)
<b>Other information</b>	
<b>Explosive properties:</b>	Vapours may form explosive mixtures with air see item 10
<b>Oxidizing properties:</b>	No data available.
<b>Minimum ignition temperature:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions"
<b>Chemical Stability:</b>	The following applies to the component nitroethane: May explode if heated. Shock and heat sensitive.
<b>Possibility of hazardous reactions:</b>	Product will not undergo polymerization. Reactions with strong oxidizing agents. Reactions with lead, copper and their alloys. Forms shock sensitive compounds with strong alkalis, acids or mixtures of amines and heavy metal oxides.
<b>Conditions to avoid:</b>	Avoid high temperatures and sources of ignition.

<b>Incompatible Materials:</b>	Reactions with strong oxidizing agents. Reactions with lead, copper and their alloys. Forms shock sensitive compounds with strong alkalis, acids or mixtures of amines and heavy metal oxides.
<b>Hazardous Decomposition Products:</b>	None when used as directed.

## 11. Toxicological information

**General information:** Contains a material that has been reported to cause isolated cases of human sensitization in other products. No reports of human sensitization have been reported for this product.

### Information on likely routes of exposure

<b>Inhalation:</b>	Harmful if inhaled.
<b>Skin Contact:</b>	Causes mild skin irritation.
<b>Eye contact:</b>	May irritate eyes.
<b>Ingestion:</b>	Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	Drowsiness, dizziness, disorientation, vertigo.
<b>Skin Contact:</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact:</b>	Eye may become red, tear, and become painful.
<b>Ingestion:</b>	If handled correctly, not a relevant route of exposure. Information on effects are given below.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	ATEmix: > 1,500 mg/kg
<b>Dermal Product:</b>	ATEmix: > 5,000 mg/kg
<b>Inhalation Product:</b>	Harmful by inhalation.

#### Repeated dose toxicity

**Product:** No data available.

#### Skin Corrosion/Irritation

**Product:** If contact with skin is prolonged and/or frequent, irritations cannot be excluded.

#### Serious Eye Damage/Eye Irritation



**Product:** No data available.

#### **Respiratory or Skin Sensitization**

**Product:** No data available.

#### **Carcinogenicity**

**Product:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

##### **In vitro**

**Product:** No data available.

##### **In vivo**

**Product:** No data available.

#### **Reproductive toxicity**

**Product:** No data available.

#### **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

#### **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

#### **Aspiration Hazard**

**Product:** Not classified

#### **Other effects:**

High solvent concentrations will cause irritations of the eyes and respiratory system and may cause headache, dizziness and disorder of the central nervous system. Inhalation of high concentrations of solvent vapors may have narcotic effects. On chronic overexposure damages to the liver and kidneys cannot be excluded. Methämoglobin formation cannot be ruled out. Carefully avoid contact with skin and eyes as well as inhalation of product vapours. No data is available on the product itself.

## **12. Ecological information**

#### **Ecotoxicity:**

##### **Acute hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Toxicity to Aquatic Plants**  
**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**  
**Product:** The product is biodegradable. Values refer to the main component.

**BOD/COD Ratio**  
**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**  
**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** Prevent substance from entering soil, natural bodies of water and sewer systems. No investigations were carried out with the preparation itself. The properties of this product which are characteristics posing a threat to the environment have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".

<b>13. Disposal considerations</b>
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**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:** Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Evonik encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.

**Contaminated Packaging:** Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling. Empty containers must be handled with care due to product residue. **DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH**

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ELECTRIC OR GAS TORCH.

## 14. Transport information

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 1133  
Proper shipping name : Adhesives

Class : 3  
Packing group : II  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1133  
Proper shipping name : Adhesives  
Class : 3  
Packing group : II  
Labels : 3  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

#### IMDG-Code

UN number : UN 1133  
Proper shipping name : ADHESIVES  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. Regulatory information

### US Federal Regulations

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

None present or none present in regulated quantities.

#### US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
ACETIC ACID, ETHYL ESTER	5000 lbs.
GLYCOL ETHERS	*
1-BUTANOL	5000 lbs.
2-PROPENOIC ACID, 2- METHYL-, METHYL ESTER	1000 lbs.

\*Included in the regulation but with no data values. See regulation for further details

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### Hazard categories

Flammable (gases, aerosols, liquids, or solids), Acute toxicity (any route of exposure), Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

#### US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

##### Chemical Identity

Ethyl acetate  
Ethanol, 2-phenoxy-  
butan-1-ol; n-butanol  
Methyl methacrylate

**US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A)**

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>
Ethanol, 2-phenoxy-	Otherwise used (non-manufacturing/processing)
butan-1-ol; n-butanol	Otherwise used (non-manufacturing/processing)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**  
None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**  
No ingredient requiring a warning under CA Prop 65.

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

<u>Chemical Identity</u>
ethyl formate
nitroethane
Ethyl acetate
Ethanol, 2-phenoxy-
butan-1-ol; n-butanol

**US. Massachusetts RTK - Substance List**  
No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

<u>Chemical Identity</u>
ethyl formate
nitroethane
Ethyl acetate
Ethanol, 2-phenoxy-
butan-1-ol; n-butanol

**US. Rhode Island RTK**  
No ingredient regulated by RI Right-to-Know Law present.

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

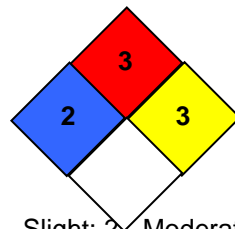
**HMIS Hazard ID**

<b>Health</b>	2
<b>Flammability</b>	3
<b>Physical Hazards</b>	3
<b>PERSONAL PROTECTION</b>	
	<b>H</b>

H - Goggles, Gloves, Apron & Vapor Respirator

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**



- Flammability
- Health
- Reactivity
- Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 02/18/2020

**Version #:** 2.1

**Further Information:** none

**Revision Information** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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