

**BIMAX® DMA****Safety Data Sheet 9029D**

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date: 07/10/2025

Revision date: 07/18/2025

Supersedes: 07/10/2025

Version: 1.1

**SECTION 1: Identification****1.1. Identification**

Product name	: BIMAX® DMA
Product code	: 9029D
Product form	: Substance
Physical state	: Liquid
Formula	: C <sub>5</sub> H <sub>9</sub> NO
Synonyms	: N,N-DIMETHYLPROP-2-ENAMIDE
Chemical name	: N,N-DIMETHYLACRYLAMIDE

**1.2. Recommended use and restrictions on use**

Recommended use	: Laboratory chemicals Manufacture of substances
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**1.3. Supplier**

GELEST, INC.  
158 Industrial Road  
Glen Rock, PA 17327  
USA  
T 717-227-1774 - F 717-227-1775 (M-F): 8:00 AM - 5:30 PM EST  
[CS-Gelest@m-chem.com](mailto:CS-Gelest@m-chem.com) - [www.gelest.com](http://www.gelest.com)

**1.4. Emergency telephone number**

Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
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**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Flammable liquid, Category 4	H227	Combustible liquid.
Acute toxicity (oral), Category 3	H301	Toxic if swallowed.
Acute toxicity (dermal), Category 3	H311	Toxic in contact with skin.
Acute toxicity (inhalation:dust,mist), Category 2	H330	Fatal if inhaled.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
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)

: H227 - Combustible liquid  
H301+H311 - Toxic if swallowed or in contact with skin  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H330 - Fatal if inhaled

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Precautionary statements (GHS US) :

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P260 - Do not breathe fume, mist, spray, vapors.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing must not be allowed out of the workplace.
- P280 - Wear protective gloves, protective clothing, eye and face protection.
- P284 - Wear respiratory protection.
- P301+P310 - If swallowed: Immediately call a poison center or doctor.
- P302+P352 - If on skin: Wash with plenty of water.
- P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a poison center or doctor.
- P330 - Rinse mouth.
- P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
- P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
- P370+P378 - In case of fire: Use alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>) to extinguish.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 2.3. Hazards not otherwise classified (HNOC)

Other hazards which do not result in classification : Hazardous polymerization may occur.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name : BIMAX® DMA  
CAS-No. : 2680-03-7

Name	Product identifier	%	GHS US classification
N,N-Dimethylacrylamide	CAS-No.: 2680-03-7	≥ 99.5	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Eye Dam. 1, H318 Skin Sens. 1, H317

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

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.  
First-aid measures after skin contact : Wash skin with plenty of water. Remove/take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.

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

Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Toxic if swallowed.
Chronic symptoms	: Sensitization to this material has been observed with repeated use.

### 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. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Avoid the use of streaming water, as this may spread the fire.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid.
Explosion hazard	: No direct explosion hazard.
Reactivity	: No dangerous reactions known under normal conditions of use.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO <sub>2</sub> etc.).

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Do not breathe fume, mist, spray, vapors. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Take up liquid spill into absorbent material.

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### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe fume, mist, spray, vapors. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed in a dry and well-ventilated place away from heat sources. Store locked up.
Incompatible materials	: Oxidizing agents. Free radical initiators. Acids.
Storage temperature	: < 32 °C

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Protective gloves

#### Eye protection:

Chemical goggles

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless Liquid.
Molecular mass	: 99.13 g/mol
Color	: Colorless.
Odor	: No data available
Odor threshold	: No data available
pH	: 7 – 10 at 200g/L
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -40 °C
Freezing point	: No data available

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Boiling point	: 80 – 81 °C @ 20 mmHg
Flash point	: 70 °C (closed cup)
Auto-ignition temperature	: 352 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 0.49 mm Hg @ 20 °C
Relative vapor density at 20°C	: No data available
Relative density	: 0.962 @ 25 °C
Solubility	: Water: 1000 g/l
Partition coefficient n-octanol/water (Log Pow)	: -0.3 @ 23 °C
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 1.24 mm²/s at 20 °C
Viscosity, dynamic	: 1.19 mPa·s at 20 °C
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

### N,N-Dimethylacrylamide

Particle characteristics	Particle size : Not applicable
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## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Polymerization can occur at elevated temperatures. Contains the following stabilizer(s): MEHQ.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization can occur, particularly at elevated temperatures, or upon loss of the inhibitor and may result in the release of hazardous decomposition products and vapors.

### 10.4. Conditions to avoid

Heat. Light. flames. Sparks.

### 10.5. Incompatible materials

Oxidizing agents. Acids. Free radical initiators.

### 10.6. Hazardous decomposition products

No data available. In the event of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Inhalation:dust,mist: Fatal if inhaled.

### BIMAX® DMA (2680-03-7)

ATE US (oral)	100.503 mg/kg body weight
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### BIMAX® DMA (2680-03-7)

ATE US (dermal)	521.608 mg/kg body weight
ATE US (dust, mist)	0.05 mg/l/4h

### N,N-Dimethylacrylamide (2680-03-7)

LD50 oral rat	316 mg/kg Source: TOMES
LD50 dermal rabbit	519 mg/kg

Skin corrosion/irritation	: Not classified pH: 7 – 10 at 200g/L
Serious eye damage/irritation	: Causes serious eye damage. pH: 7 – 10 at 200g/L
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified.

### N,N-Dimethylacrylamide (2680-03-7)

LOAEL (dermal,rat/rabbit,90 days)	75 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEL (oral,rat,90 days)	5 mg/kg body weight Animal: rat, Guideline: other:, Guideline: other:
NOAEL (dermal,rat/rabbit,90 days)	10 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Toxic in contact with skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Toxic if swallowed.
Chronic symptoms	: Sensitization to this material has been observed with repeated use.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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### N,N-Dimethylacrylamide (2680-03-7)

LC50 - Fish [1]	9537.858 mg/l Source: ECOSAR
EC50 - Crustacea [1]	> 120 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 400 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	> 400 mg/l (green algae)
ErC50 other aquatic plants	> 1000 mg/l Bacteria

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available





## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.  
Sewage disposal recommendations : Do not dispose of waste into sewer.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
UN2810	UN2810	2810	2810
<b>14.2. Proper Shipping Name</b>			
Toxic, liquids, organic, n.o.s. (N,N-Dimethylacrylamide)	TOXIC LIQUID, ORGANIC, N.O.S. (N,N-DIMETHYLACRYLAMIDE)	TOXIC LIQUID, ORGANIC, N.O.S. (N,N-DIMETHYLACRYLAMIDE)	Toxic liquid, organic, n.o.s. (N,N-Dimethylacrylamide)
<b>Transport document description</b>			
UN2810 Toxic, liquids, organic, n.o.s. (N,N-Dimethylacrylamide), 6.1, II	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (N,N-DIMETHYLACRYLAMIDE), 6.1, II	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (N,N-DIMETHYLACRYLAMIDE), 6.1, II	UN 2810 Toxic liquid, organic, n.o.s. (N,N-Dimethylacrylamide), 6.1, II
<b>14.3. Transport hazard class(es)</b>			
6.1	6.1	6.1	6.1
			
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

### 14.6. Special precautions for user

**DOT**  
UN-No. (DOT) : UN2810

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DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
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	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
<b>TDG</b>	
UN-No. (TDG)	: UN2810
TDG Special Provisions	: 16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks. 2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act".
Explosive Limit and Limited Quantity Index	: 0.1 L
Excepted quantities (TDG)	: E4
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Emergency Response Guide (ERG) Number	: 153
<b>IMDG</b>	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 100 ml
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11



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Tank special provisions (IMDG)	: TP2, TP13, TP27
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.

### IATA

PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A4, A137
ERG code (IATA)	: 6L

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
N,N-Dimethylacrylamide	2680-03-7	Present	Active	

### 15.2. International regulations

#### CANADA

#### N,N-Dimethylacrylamide (2680-03-7)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

#### N,N-Dimethylacrylamide (2680-03-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### N,N-Dimethylacrylamide (2680-03-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)  
Listed on the NCI (Vietnam - National Chemical Inventory)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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### SECTION 16: Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

#### Full text of hazard classes and H-statements

H227	Combustible liquid
H301	Toxic if swallowed
H311	Toxic in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled

#### Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.

#### NFPA health hazard

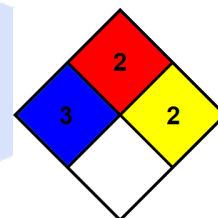
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

#### NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

#### NFPA reactivity

: 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.



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SDS US (GHS HazCom 2012) - Custom

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