Triethylene Glycol

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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SECTION 1: Identification

1.1. Identification

Product form	:	Substance
Trade name	:	Triethylene Glycol
Chemical name	:	Triethylene Glycol
CAS-No.	:	112-27-6
Formula	:	C6H14O4
Synonyms	:	1,2-Bis(2-hydroxyethoxy)ethane / 3,6-Dioxaoctane-1,8-diol / 2,2'-(1,2-Ethanediylbis(oxy))bisethanol / Ethanol, 2,2'-(ethylenedioxy)di- / Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis- / 2,2'-(Ethylenedioxy)diethanol / 2,2'-Ethylenedioxybis(ethanol) / 2,2'-Ethylenedioxydiethanol / 2,2'-Ethylenedioxyethanol / Glycol bis(hydroxyethyl) ether / Octane-1,8-diol, 3,6-dioxa- / Triglycol / TRIETHYLENE GLYCOL / Ethanol, 2,2'-(1,2-ethanediylbis(oxy)bis-

1.2. Recommended use and restrictions on use

Use of the substance/mixture	:	Bactericide Fungicide Solvent Chemical raw material

1.3. Supplier

Monument Chemical
2450 S. Gulfway Dr.
Port Arthur, TX, 77641
USA
T (409) 985-4200 - F (409) 985-6350
sds@monumentchemical.com - www.monumentchemical.com

1.4. Emergency telephone number

Emergency number	:	24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency Assistance: 1-(409) 985-4200

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

According to the corresponding national regulations there is no labelling obligation for this product.

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

Substance type : Mono-constituent
Chemical name : Triethylene Glycol
CAS-No. : 112-27-6

Name	Product identifier	%
Triethylene glycol	CAS-No.: 112-27-6	≥ 95
2,2' -oxybisethanol, diethylene glycol	CAS-No.: 111-46-6	≤ 4
Tetraethylene glycol	CAS-No.: 112-60-7	≤ 1

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 : 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 : Allow affected person to breathe fresh air. Allow the victim to rest.
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.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact : No effects known.
Symptoms/effects after eye contact : No effects known.

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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.
Hazardous decomposition products in case of fire : Upon combustion: CO and CO2 are formed.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	:	Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).
Emergency procedures	:	Evacuate unnecessary personnel.

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". Equip cleanup crew with proper protection.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	:	Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Heat sources, Ignition sources, Incompatible materials. Keep container closed when not in use.
Incompatible products	:	Strong bases. Strong acids.
Incompatible materials	:	Sources of ignition. Direct sunlight.
Storage temperature	:	15 – 25 °C
Heat-ignition	:	KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	:	KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. water/moisture.
Storage area	:	Store in a dry area. Keep container in a well-ventilated place. Store at ambient temperature. Protect against frost. May be stored under nitrogen. Meet the legal requirements.
Special rules on packaging	:	SPECIAL REQUIREMENTS: hermetical. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	:	SUITABLE MATERIAL: steel. stainless steel. carbon steel. aluminium. glass.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Triethylene Glycol (112-27-6)

No additional information available

2,2' -oxybisethanol, diethylene glycol (111-46-6)

USA - AIHA - Occupational Exposure Limits

WEEL TWA	10 mg/m³

Tetraethylene glycol (112-60-7)

No additional information available

Triethylene glycol (112-27-6)

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:
Avoid all unnecessary exposure.

Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. neoprene. nitrile rubber. viton

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

Respiratory protection:

Wear appropriate mask

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear, colorless to pale yellow liquid.
Color : clear Colorless light yellow
Odor : very mild Sweet
Odor threshold : No data available

pH	:	7.4 (50 %)
Melting point	:	-7 °C ; 23F
Freezing point	:	No data available
Boiling point	:	286.5 °C (at 1013 hPa)
Flash point	:	177 °C (open cup)
Relative evaporation rate (butyl acetate=1)	:	< 0.1
Relative evaporation rate (ether=1)	:	> 3900
Flammability (solid, gas)	:	Not applicable. Non flammable.
Vapor pressure	:	< 0.01 hPa (at 20 °C)
Relative vapor density at 20 °C	:	5.2
Particle size	:	Not applicable (liquid)
Relative density	:	1.13 (15 °C)
Relative density of saturated gas/air mixture	:	1
Density	:	1.123 g/cm³ (at 20 °C)
Molecular mass	:	150.17 g/mol
Solubility	:	Soluble in water. Soluble in ethanol. Soluble in toluene. Water: 100 g/100ml (20 °C) Ethanol: complete
Partition coefficient n-octanol/water (Log Pow)	:	-1.98 (at 25 °C)
Auto-ignition temperature	:	347 °C (at 1013 hPa)
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available in the literature
Viscosity, dynamic	:	47.8 mPa·s (20 °C)
Explosion limits	:	0.9 – 9.2 vol % 55 – 580 g/m³ Lower explosive limit (LEL): 0.9 vol % Upper explosive limit (UEL): 9.2 vol %
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

Specific conductivity	:	8400000 pS/m
VOC content	:	0 %
Refractive index	:	1.447 at 20 C
Other properties	:	Gas/vapour heavier than air at 20°C. Clear. Hygroscopic. Slightly volatile.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (strong) oxidizers.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. 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

Triethylene Glycol (112-27-6)	
LD50 oral rat	17 g/kg
LD50 dermal rat	> 20 g/kg
LD50 dermal rabbit	> 20 mg/kg
LC50 Inhalation - Rat	> 5.2 mg/l/4h
ATE US (oral)	17000 mg/kg body weight

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
LD50 oral rat	12565 mg/kg
LD50 dermal rabbit	11890 mg/kg
LC50 Inhalation - Rat	> 4600 mg/m³ (Exposure time: 4 h)
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	11890 mg/kg body weight

Tetraethylene glycol (112-60-7)	
LD50 oral rat	29 g/kg
LD50 dermal rabbit	20 ml/kg
ATE US (oral)	29000 mg/kg body weight
ATE US (dermal)	22403.8 mg/kg body weight

Triethylene glycol (112-27-6)	
LD50 oral rat	17 g/kg
LD50 dermal rabbit	> 20 mg/kg
LC50 Inhalation - Rat	> 5.2 mg/l/4h
ATE US (oral)	17000 mg/kg body weight

Skin corrosion/irritation : Not classified
pH: 7.4 (50 %)
Serious eye damage/irritation : Not classified
pH: 7.4 (50 %)
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Triethylene Glycol (112-27-6)	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)

Triethylene Glycol (112-27-6)	
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)

Triethylene glycol (112-27-6)	
NOAEL (chronic,oral,animal/male,2 years)	1210 mg/kg body weight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	1160 mg/kg body weight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
LOAEL (oral,rat,90 days)	40000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified
Viscosity, kinematic : No data available in the literature
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact : No effects known.
Symptoms/effects after eye contact : No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Photolysis in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Triethylene Glycol (112-27-6)	
LC50 - Fish [1]	56200 – 63700 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	42426 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
NOEC (chronic)	> 15000 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
LC50 - Fish [1]	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

Tetraethylene glycol (112-60-7)	
LC50 - Fish [1]	> 1000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Triethylene glycol (112-27-6)	
LC50 - Fish [1]	56200 – 63700 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	42426 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
NOEC (chronic)	> 15000 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

Triethylene Glycol (112-27-6)	
Persistence and degradability	Not established.
Biochemical oxygen demand (BOD)	0.03 g O_2/g substance
Chemical oxygen demand (COD)	1.57 g O_2/g substance
ThOD	1.6 g O_2/g substance

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.02 g O_2/g substance
Chemical oxygen demand (COD)	1.51 g O_2/g substance
ThOD	1.51 g O_2/g substance

Tetraethylene glycol (112-60-7)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.23 g O_2/g substance
BOD (% of ThOD)	0.286

Triethylene glycol (112-27-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.03 g O_2/g substance
Chemical oxygen demand (COD)	1.57 g O_2/g substance
ThOD	1.6 g O_2/g substance

12.3. Bioaccumulative potential

Triethylene Glycol (112-27-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.98 (at 25 °C)
Bioaccumulative potential	Not established.

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
BCF - Fish [1]	100 – 180
Partition coefficient n-octanol/water (Log Pow)	-1.98 (at 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Tetraethylene glycol (112-60-7)	
BCF - Fish [1]	(no bioconcentration expected)
Partition coefficient n-octanol/water (Log Pow)	-2.18 – -1.38
Bioaccumulative potential	Not bioaccumulative.

Triethylene glycol (112-27-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.98 (at 25 °C)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Triethylene Glycol (112-27-6)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

2,2' -oxybisethanol, diethylene glycol (111-46-6)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Highly mobile in soil.

Triethylene glycol (112-27-6)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
No data available

IMDG
No data available

IATA
No data available

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

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Triethylene Glycol (112-27-6)

Listed on the Canadian DSL (Domestic Substances List)

2,2' -oxybisethanol, diethylene glycol (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)

Tetraethylene glycol (112-60-7)

Listed on the Canadian DSL (Domestic Substances List)

Triethylene glycol (112-27-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Triethylene Glycol (112-27-6)

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

2,2' -oxybisethanol, diethylene glycol (111-46-6)

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

Tetraethylene glycol (112-60-7)

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

Triethylene glycol (112-27-6)

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

National regulations

Triethylene Glycol (112-27-6)

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

2,2' -oxybisethanol, diethylene glycol (111-46-6)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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Tetraethylene glycol (112-60-7)
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Listed on the NCI (Vietnam - National Chemicals Inventory)

15.3. US State regulations

Triethylene Glycol (112-27-6)	
State or local regulations	U.S. - Pennsylvania - RTK (Right to Know) List

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

Component	State or local regulations
2,2' -oxybisethanol, diethylene glycol(111-46-6)	U.S. - Pennsylvania - RTK (Right to Know) List
Triethylene glycol(112-27-6)	U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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

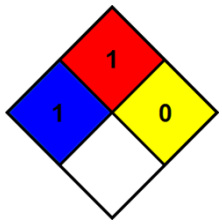
Revision date : 11/09/2021

Other information : None.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Safety Data Sheet (SDS), USA

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