

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

Date of issue: 02/23/2016 Version: 1.0

# **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : STP® DEX Antifreeze/Coolant Ready-To-Use

**1.2.** Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Antifreeze

Coolant

1.3. Details of the supplier of the safety data sheet

KOST® USA, Inc. Manufactured for: STP®

1000 Tennessee Ave. Cincinnati, 45229 - USA

T 1-800-661-9391 - F 1-513-492-5555 sales@kostusa.com - www.kostusa.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300

CHEMTREC (24 HOURS)

# SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

### **GHS-US** classification

Acute toxicity (oral), Category 4 H302
Reproductive toxicity, Category 2 H361
Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H statements : see section 16

# 2.2. Label elements

# **GHS-US labelling**

Hazard pictograms (GHS-US)



S07 G

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe mist, spray, vapours P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye protection, protective gloves

P301+P312 - If swallowed: Call a doctor if you feel unwell

P308+P313 - If exposed or concerned: Get medical advice/attention

P314 - Get medical advice/attention if you feel unwell

P330 - Rinse mouth P405 - Store locked up

P501 - Dispose of contents/container to an authorised waste collection point

### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

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# **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Ethylene glycol	(CAS No) 107-21-1	45 – 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
2-Ethylhexanoic acid	(CAS No) 149-57-5	1 – 2	Acute Tox. 4 (Dermal), H312 Repr. 2, H361
Sodium hydroxide	(CAS No) 1310-73-2	0.3 – 0.7	Skin Corr. 1A, H314
sodium tolyltriazole	(CAS No) 64665-57-2	0.1 – 0.2	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce

vomiting unless directed to do so by medical personnel.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Suspected of damaging fertility or the unborn child. May cause damage to organs.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Harmful if

swallowed.

## 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Sand. Water spray.

Unsuitable extinguishing media : None known.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : No specific fire or explosion hazard.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter

drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

# **SECTION 6: Accidental release measures**

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

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves resistant to chemical penetration. Chemical goggles or safety glasses.

Emergency procedures : Ventilate area.

6.1.2. For emergency responders

Protective equipment : Wear suitable gloves. Chemical goggles or safety glasses. Where excessive vapour, mist, or

dust may result, use approved respiratory protection equipment.

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Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb and/or contain spill with inert material, then place in suitable container.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take

up in non-combustible absorbent material and shove into container for disposal.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Avoid breathing mist/vapour/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with

mild soap and water before eating, drinking or smoking and when leaving work.

2 mg/m<sup>3</sup>

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

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool well

ventilated place.

Incompatible products : Strong oxidizing agents. Strong acids. Strong bases.

Incompatible materials : Heat sources. Direct sunlight.

Prohibitions on mixed storage : Keep away from incompatible materials.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters Ethylene glycol (107-21-1)

ACGIH	ACGIH Ceiling (ppm)	39.4 ppm		
ACGIH	Remark (ACGIH)	URT & eye irr		
NIOSH	NIOSH REL (ceiling) (ppm)	50 ppm		
Sodium hydroxide (1310-73-2)				
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³		
ACGIH	Remark (ACGIH)	URT, eye, & skin irr		
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³		

# sodium tolyltriazole (64665-57-2)

Not applicable

NIOSH

2-Ethylhexanoic acid (149-57-5)			
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³	
ACGIH	Remark (ACGIH)	(inhalable fraction, vapor)	

# 8.2. Exposure controls

Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation

is usually required.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. nitrile

rubber gloves.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use an approved respirator

equipped with oil/mist cartridges.

Consumer exposure controls : Avoid contact during pregnancy/while nursing.

NIOSH REL (ceiling) (mg/m3)

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour : Orange

Odour : No data available
Odour threshold : No data available

pH : 8.5

Melting point : No data available
Freezing point : -40 - -33.5 °C
Boiling point : No data available

Flash point : 116 °C

: No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) : No data available No data available **Explosive limits** Explosive properties : No data available No data available Oxidising properties Vapour pressure : No data available Relative density 1.072 @ 20 °C Relative vapour density at 20 °C No data available Solubility No data available Log Pow : No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available No data available Viscosity, kinematic Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

# 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

Avoid excessive heat or cold. Keep away from sources of ignition.

## 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

# 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact; Inhalation Acute toxicity : Oral: Harmful if swallowed.

STP® DEX Antifreeze/Coolant Ready-To-Use		
ATE US (oral) 1009.210 mg/kg bodyweight		
Ethylene glycol (107-21-1)		
LD50 dermal rat	> 3500 mg/kg mouse	
LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h	
ATE US (oral)	500.000 mg/kg bodyweight	

sodium tolyltriazole (64665-57-2)		
LD50 oral rat	735 mg/kg bodyweight	

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sodium tolyltriazole (64665-57-2)			
LD50 dermal rabbit	> 2000 mg/kg bodyweight		
ATE US (oral)	735.000 mg/kg bodyweight		
2-Ethylhexanoic acid (149-57-5)			
LD50 oral rat	3 g/kg		
LD50 dermal rabbit	1138 mg/kg		
LC50 inhalation rat (ppm)	> 600 ppm/4h		
ATE US (oral)	3000.000 mg/kg bodyweight		
ATE US (dermal)	1138.000 mg/kg bodyweight		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Ethylene glycol (107-21-1)			
IARC group	Not listed in carcinogenicity class		
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.		
Ethylene glycol (107-21-1)			
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day		
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day kidney		
Aspiration hazard	: Not classified		
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.		

# SECTION 12: Ecological information

#### 12.1. **Toxicity**

Ecology - general : No ecotoxicological data about this product are known.

Ethylene glycol (107-21-1)			
LC50 fish 1	72860 mg/l Pimephales promelas		
EC50 Daphnia 1	> 100 mg/l		
NOEC chronic fish 15380 mg/l Pimephales promelas			
NOEC chronic crustacea	C chronic crustacea 8590 mg/l Ceriodaphnia sp.		
sodium tolyltriazole (64665-57-2)			
LC50 fish 1	55 mg/l		
EC50 Daphnia 1 15.8 mg/l			
2-Ethylhexanoic acid (149-57-5)			

LC50 fish 1 > 302 mg/l 48 h

#### 12.2. Persistence and degradability

STP® DEX Antifreeze/Coolant Ready-To-Use			
Persistence and degradability Not established.			
Ethylene glycol (107-21-1)			
Persistence and degradability Readily biodegradable.			
sodium tolyltriazole (64665-57-2)			
Biodegradation 4 % O2 consumption; 28 days			
2-Ethylhexanoic acid (149-57-5)			
Persistence and degradability Readily biodegradable.			
Biodegradation	99 % 28 days; 90.1% 7 days		

#### 12.3. **Bioaccumulative potential**

STP® DEX Antifreeze/Coolant Ready-To-Use			
Bioaccumulative potential Not established.			

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Ethylene glycol (107-21-1)		
Log Pow	- 1.36	
Bioaccumulative potential Not expected to bioaccumulate.		
sodium tolyltriazole (64665-57-2)		
Log Pow 1.083		
2-Ethylhexanoic acid (149-57-5)		
Log Pow	2.7	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

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

# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT Non-bulk (< 10,112 lbs)

Not a dangerous good for transport regulations

Bulk (>= 10,112 lbs)

Transport document description

: RQ, UN3082 Environmentally hazardous substances, liquid, n.o.s. (Ethylene glycol), 9, III

UN-No.(DOT)

Proper Shipping Name (DOT)

: Environmentally hazardous substances, liquid, n.o.s.

Ethylene glycol

: UN3082

Transport hazard class(es) (DOT)

: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT)

: III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx)

**DOT Symbols** 

: G - Identifies PSN requiring a technical name

# **TDG**

No additional information available

### Transport by sea

No additional information available

# Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

Ethylene glycol (107-21-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag  T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA			
CERCLA RQ	5000 lb		
SARA Section 313 - Emission Reporting	>95%		

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### Sodium hydroxide (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ 1000 I

### sodium tolyltriazole (64665-57-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 2-Ethylhexanoic acid (149-57-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

### **CANADA**

## Ethylene glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List) inventory

## Sodium hydroxide (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List) inventory

### sodium tolyltriazole (64665-57-2)

Listed on the Canadian DSL (Domestic Substances List) inventory

### 2-Ethylhexanoic acid (149-57-5)

Listed on the Canadian DSL (Domestic Substances List) inventory

### **EU-Regulations**

### Ethylene glycol (107-21-1)

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

## Sodium hydroxide (1310-73-2)

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

# sodium tolyltriazole (64665-57-2)

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

### 2-Ethylhexanoic acid (149-57-5)

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

### National regulations

# Ethylene glycol (107-21-1)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

# Sodium hydroxide (1310-73-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Chinese Catalog of Hazardous Chemicals

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

## sodium tolyltriazole (64665-57-2)

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 KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

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### 2-Ethylhexanoic acid (149-57-5)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### 15.3. US State regulations

2-Ethylhexanoic acid (149-57-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	Yes	No	No	

## Ethylene glycol (107-21-1)

- U.S. Minnesota Hazardous Substance List
- U.S. Pennsylvania List of Hazardous Substances
- U.S. New Jersey Right to Know Hazardous Substance List

# Sodium hydroxide (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

### 2-Ethylhexanoic acid (149-57-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

# **SECTION 16: Other information**

### Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

End-use applications **NOT** supported by KOST® USA, Inc. for monoethylene glycol, diethylene glycol and triethylene glycol. These limitations include products restricted by law, applications in which may raise unacceptable risks, and other applications which KOST® USA, Inc. has decided not to, including minimizing unnecessary risk and liabilities to the company. KOST® USA, Inc. does not knowingly market these products into these non-supported applications. This list is not all-inclusive, and KOST® USA, Inc. reserves the right to modify the same at any time.

- The use of production of tobacco and in the manufacture of tobacco products (including but not limited to additives, humectants, filters, inks, and paper)
- The use for the generation of artificial smoke / theatrical fogs / mist. This includes applications such as artificial / e-cigarettes.
- The use as ingredient in fuel for warming foods (Sterno™-like application) or in fuel for heating an enclosed space where human exposure is possible.
- The use in fire extinguishing sprinkler systems.
- The use in the manufacture of munitions.
- The use in the production of de-icers for use on roadways, sidewalks and in aircraft lavatories.
- The use as a component of heat transfer fluids in systems where the heat transfer fluids could infiltrate (i.e., via an exchanger leak, backflow prevention failure, or other means) a potable water.
- The use as a non-reacted component in a formulation for direct internal or external human / animal contact, including, but not limited to ingestion, inhalation, and skin contact and in medical / veterinary devices and medial / veterinary. Examples of some such applications are uses as a direct component in foods, beverages, pharmaceuticals, cosmetics, personal care products or children's products.
- The use for consumer or hospital usage for deodorizing or air "purifying" purposes by spraying as an aerosol.
- The use as a non-reacted component in adhesives, plasticizers, and softening agents for packaging having direct contact with food or beverage.
- The use as a non-reacted component in the formulation of glues, pastes, ice / heat packs or other items where the potential for significant human contact and/or ingestion exists (including but not limited to children's school glue/paste or arts/craft glue/paste, toys, children products).
- The use as a fluid for pressure testing piping.

For more information contact your KOST® USA, Inc. representative.

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Data sources

: ESIS (European chemincal Substances Information System; accessed at:

http://esis.jrc.ec.europa.eu/index.php?PGM=cla.
European Chemicals Agency (ECHA) Registered Substances list. Accessed at

http://echa.europa.eu/

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing",

Fifth Edition.

National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th

edition.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

TSCA Chemical Substance Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

United Nations Economic Commission for Europe: About the GHS. Accessed at

 $http://www.unece.org/trans/danger/publi/ghs/ghs\_welcome\_e.html.\\$ 

: ACGIH (American Conference of Government Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

LD50: Lethal Dose for 50% of the test population.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals.)

OSHA: Occupational Safety & Health Administration.

TSCA: Toxic Substances Control Act. STEL: Short Term Exposure Limits. TWA: Time Weighted Average.

Other information : None.

## Full text of H-statements:

Abbreviations and acronyms

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard

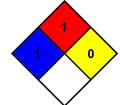
- : 1 Exposure could cause irritation but only minor residual
- injury even if no treatment is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



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