

Safety Data Sheet

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

Date of issue: 09/09/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Alcoholic Sulfuric Acid

Product code : LC10570

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 3 (Inhalation:dust,mist) H331 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Carc. 2 H351 STOT SE 1 H370

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS02

GHS06





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer (Inhalation)

H370 - Causes damage to organs (central nervous system, kidneys, liver, optic nerve)

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

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating, lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe mist, vapours, spray

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

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clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position 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

P330 - If swallowed, rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P235 - Keep cool

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, alcohol

resistant foam for extinction

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

Other hazards

Other hazards not contributing to the classification

: None under normal conditions

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Methanol	(CAS No) 67-56-1	98	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Sulfuric Acid, 96% w/w	(CAS No) 7664-93-9	2	Skin Corr. 1A, H314 Eye Dam. 1, H318

SECTION 4: First aid measures

Description of first aid measures

: Never give anything by mouth to an unconscious person. Suspected of causing cancer First-aid measures general

(Inhalation). Call a POISON CENTER or doctor/physician.

First-aid measures after inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. First-aid measures after skin contact

Immediately call a POISON CENTER or doctor/physician. 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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

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

Symptoms/injuries : Causes damage to organs (central nervous system, kidneys, liver, optic nerve).

Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. Symptoms/injuries after inhalation

Repeated exposure to this material can result in absorption through skin causing significant Symptoms/injuries after skin contact

health hazard. Toxic in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact Causes serious eve irritation.

Symptoms/injuries after ingestion Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

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SECTION 5: Firefighting measures

5.1. 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. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Protective clothing. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing mist, Vapors, spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

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.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

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 vapour. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapours, spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

 $\hbox{container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/...}$

equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.,

Ignition sources, incompatible materials, metals. Keep in fireproof place. Keep container tightly

closed.

Incompatible products : Strong bases. Strong oxidizers. metals.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Storage temperature : 4 - 30 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Sulfuric Acid, 96% w/w (7664-93-9)		
USA ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³

Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	200 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

Exposure controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity Appropriate engineering controls

of any potential exposure. Ensure adequate ventilation. Material should be handled in a

laboratory hood whenever possible.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses. Wear suitable protective clothing. Skin and body protection

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid Colour Colourless Odour : Alcohol odour Odour threshold No data available рН No data available Relative evaporation rate (butylacetate=1) : No data available : No data available Melting point Freezing point : No data available : No data available Boiling point Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C No data available Relative density : No data available

Solubility Soluble in ethanol. Soluble in methanol. Soluble in water.

Water: Solubility in water of component(s) of the mixture :

• Sulfuric Acid, 96% w/w: Complete • Methanol: Complete

Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties No data available : No data available Oxidising properties **Explosive limits** : No data available

Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong oxidizers. Strong bases. metals.

10.6. Hazardous decomposition products

Sulfur compounds. Carbon monoxide. Carbon dioxide. dimethyl sulfate.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Alcoholic Sulfuric Acid		
ATE US (oral)	100 mg/kg bodyweight	
ATE US (dermal)	300 mg/kg bodyweight	
ATE US (dust,mist)	0.5 mg/l/4h	

Sulfuric Acid, 96% w/w (7664-93-9)	
LD50 oral rat	2140 mg/kg bodyweight (Rat; Experimental value)

Methanol (67-56-1)		
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)	
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)	
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)	
ATE US (oral)	100 mg/kg bodyweight	
ATE US (dermal)	300 mg/kg bodyweight	
ATE US (gases)	700 ppmv/4h	
ATE US (vapours)	3 mg/l/4h	
ATE US (dust,mist)	0.5 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (Inhalation).

Alcoholic Sulfuric Acid	
Additional information	Slowly forms dimethyl sulfate
IARC group	2A - Probably carcinogenic to humans
National Toxicity Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

Sulfuric Acid, 96% w/w (7664-93-9)	
IARC group	1 -

IARC group 1 - Carcinogenic to humans

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Causes damage to organs (central nervous system, kidneys, liver, optic nerve).

Specific target organ toxicity (repeated : Not classified

exposure)

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Aspiration hazard : Not classified

Potential adverse human health effects and

Symptoms/injuries after skin contact

symptoms

: Based on available data, the classification criteria are not met. Toxic if swallowed. Toxic in

contact with skin. Toxic if inhaled.

Symptoms/injuries after inhalation Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.

Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

SECTION 12: Ecological information

Toxicity

Sulfuric Acid, 96% w/w (7664-93-9)	
LC50 fishes 1	42 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 1	29 mg/l (24 h; Daphnia magna)
LC50 fish 2	49 mg/l (48 h; Lepomis macrochirus)
TLM fish 1	42 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	6900 mg/l (24 h; Pseudomonas fluorescens)

Methanol (67-56-1)	
LC50 fishes 1	15400 mg/l (96 h; Lepomis macrochirus; Lethal)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Lethal)
LC50 fish 2	10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	24500 mg/l (48 h; Daphnia magna)
Threshold limit other aquatic organisms 1	6600 mg/l (16 h; Pseudomonas putida)
Threshold limit algae 1	530 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	8000 mg/l (168 h; Scenedesmus quadricauda)

12.2. Persistence and degradability

Alcoholic Sulfuric Acid	
Persistence and degradability	Not established

Sulfuric Acid, 96% w/w (7664-93-9)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Methanol (67-56-1)		
Persistence and degradability Readily biodegradable in water. Biodegradable in the soil.		
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O□/g substance	
Chemical oxygen demand (COD)	1.42 g O □/g substance	
ThOD	1.5 g O□/g substance	
BOD (% of ThOD)	0.8 % ThOD	

Bioaccumulative potential 12.3.

Alcoholic Sulfuric Acid		
Bioaccumulative potential Not established.		
Sulfuric Acid, 96% w/w (7664-93-9)		
Log Pow -2.20 (Estimated value)		

Methanol (67-56-1)	
BCF fish 1	< 10 (Leuciscus idus)
Log Pow -0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)

Bioaccumulation: not applicable.

Mobility in soil 12.4.

Bioaccumulative potential

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Methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)

Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

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

contents/container to comply with local, state and federal regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Avoid release to the environment. Hazardous waste due to toxicity. Ecology - waste materials

SECTION 14: Transport information

In accordance with DOT

Hazard labels (DOT)

Transport document description : UN2924 Flammable liquids, corrosive, n.o.s. (Methanol, sulfuric acid), 3, II

UN-No.(DOT) 2924 DOT NA no. UN2924

DOT Proper Shipping Name : Flammable liquids, corrosive, n.o.s.

Department of Transportation (DOT) Hazard

Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

: 3 - Flammable liquid 8 - Corrosive





DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) II - Medium Danger

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.

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) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243 DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 5 L

CFR 175.75)

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location**

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"

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Additional information

Other information : No supplementary information available.

ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Alcoholic Sulfuric Acid	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
	Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Sulfuric Acid, 96% w/w (7664-93-9)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

Methanol (67-56-1)	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard

15.2. International regulations

CANADA

Alcoholic Sulfuric Acid	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Sulfuric Acid, 96% w/w (7664-93-9)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class E - Corrosive Material

Methanol (67-56-1)	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

Methanol (67-56-1)	
Listed on the Canadian IDL (Ingredient Disclosure List)	

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15.3. US State regulations

Alcoholic Sulfuric Acid()	
U.S California - Proposition 65 - Carcinogens List	Yes

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Methanol (67-56-1)				
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	No significance risk level (NSRL)
	Yes			

SECTION 16: Other information

:

Other information : None.

Full text of H-phrases: see section 16:

xt of n-prirases, see section to.			
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Carc. 2	Carcinogenicity, Category 2		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A		
Flam. Liq. 2	Flammable liquids, Category 2		
Skin Corr. 1A	Skin corrosion/irritation, Category 1A		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 1	Specific target organ toxicity — single exposure, Category 1		
H225	Highly flammable liquid and vapour		
H301	Toxic if swallowed		
H311	Toxic in contact with skin		
H314	Causes severe skin burns and eye damage		
H315	Causes skin irritation		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H331	Toxic if inhaled		
H351	Suspected of causing cancer		
H370	Causes damage to organs		

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

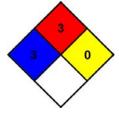
given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

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