## SAFETY DATA SHEET



## 1. Identification

Product identifier EPA Method 1614 PBDE Congeners Mixture 1

Other means of identification

ItemM-EPA1614BDE1P99Recommended useFor Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name**Chem Service, Inc.
Address
660 Tower Lane

West Chester, PA 19380

**United States** 

**Telephone** Toll Free 800-452-9994

Direct 610-692-3026

Website www.chemservice.com
E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300

Chemtrec outside US +1 703-527-3887

## 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsAcute toxicity, inhalationCategory 4Skin corrosion/irritationCategory 2Aspiration hazardCategory 1Environmental hazardsHazardous to the aquatic environment, acuteCategory 1

hazard

Hazardous to the aquatic environment,

long-term hazard

Not classified.

Label elements

**OSHA** defined hazards



Signal word Danger

**Hazard statement**Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation.
Harmful if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective

Category 1

gloves/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair):

Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
n-Nonane		111-84-2	99.966
Decabromodiphenyl ether (BDE 209)		1163-19-5	0.02
2,2',3,4,4',5',6-Heptabromodiphenyl ether(BDE 183)		207122-16-5	0.002
2,2',4,4',5,5'-Hexabromodiphenyl Ether		68631-49-2	0.002
2,2',4,4',5,6'-Hexabromodiphenyl ether (PBDE 154)		207122-15-4	0.002
2,2',4,4',5-Pentabromodiphenyl Ether		60348-60-9	0.002
2,2',4,4'-Tetrabromodiphenyl ether		5436-43-1	0.002
2,4,4'-Tribromodiphenyl Ether (BDE-028)		41318-75-6	0.002
2.2'.4.4'.6-Pentabromodiphenyl ether		189084-64-8	0.002

## 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eve contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. Headache. Dizziness. Nausea. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

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Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

## Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

#### Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value
n-Nonane (CAS 111-84-2)	TWA	200 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards** 

 Components
 Type
 Value

 n-Nonane (CAS 111-84-2)
 TWA
 1050 mg/m3 200 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

 
 Components
 Type
 Value

 Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5)
 TWA
 5 mg/m3

 0.13 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Not available.
Odor Not available.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -64.3 °F (-53.5 °C) estimated Initial boiling point and boiling 303.44 °F (150.8 °C) estimated

range

Flash point 88.0 °F (31.1 °C) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure5.93 hPa estimatedVapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature 401 °F (205 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 0.71802 g/cm3 estimated

**Explosive properties** Not explosive.

Flammability class Flammable IC estimated

Oxidizing properties Not oxidizing.

Specific gravity 0.72 estimated

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrates. Peroxides.

Hazardous decomposition No hazardous decomposition products are known.

products

## 11. Toxicological information

## Information on likely routes of exposure

InhalationHarmful if inhaled.Skin contactCauses skin irritation.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. Headache. Dizziness. Nausea. Skin

irritation. May cause redness and pain.

## Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled.

Components Species Test Results

Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5)

Acute Oral

LD50 Rat > 2000 mg/kg

n-Nonane (CAS 111-84-2)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

Inhalation

Vapor

LC50 Rat 17 mg/l, 4 Hours

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

irritation

Respiratory sensitization Not a respiratory sensitizer.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2,2',4,4',5,5'-Hexabromodiphenyl Ether 6.86 - 7.922,2',4,4',5,6'-Hexabromodiphenyl ether (PBDE 154) 6.86 - 7.922.2'.4.4'.5-Pentabromodiphenyl Ether 6.64 - 6.972,2',4,4'-Tetrabromodiphenyl ether 5.87 - 6.16n-Nonane 5.46

No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

UN1993 **UN number** 

Flammable liquids, n.o.s. (n-Nonane RQ = 100 LBS) **UN proper shipping name** 

Transport hazard class(es)

3 Class Subsidiary risk 3 Label(s) Ш **Packing group** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** B1, B52, IB3, T4, TP1, TP29

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150 Packaging exceptions

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Packaging non bulk 203 Packaging bulk 242

**IATA** 

**UN** number UN1993

UN proper shipping name Flammable liquid, n.o.s. (n-Nonane)

Transport hazard class(es)

Class 3 Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 3L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Cargo aircraft only

Passenger and cargo Allowed with restrictions.

aircraft

Allowed with restrictions.

**IMDG** 

UN1993 **UN** number

**UN** proper shipping name Transport hazard class(es) FLAMMABLE LIQUID, N.O.S. (n-Nonane), MARINE POLLUTANT

**Class** 3 Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant Yes **EmS** F-E, <u>S-E</u>

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



#### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

2,2',3,4,4',5',6-Heptabromodiphenyl ether(BDE 183) 1.0 % One-Time Export Notification only.

(CAS 207122-16-5)

2,2',4,4',5,6'-Hexabromodiphenyl ether (PBDE 154) (CAS 1.0 % One-Time Export Notification only.

207122-15-4)

Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5) 1.0 % One-Time Export Notification only.

n-Nonane (CAS 111-84-2) 1.0 % One-Time Export Notification only.

**TSCA Chemical Action Plans, Chemicals of Concern** 

2.2'.3.4,4',5',6-Heptabromodiphenyl ether(BDE 183) Polybrominated Diphenyl Ethers (PBDEs) Action Plan

(CAS 207122-16-5)

2,2',4,4',5,5'-Hexabromodiphenyl Ether (CAS Polybrominated Diphenyl Ethers (PBDEs) Action Plan

68631-49-2)

2,2',4,4',5,6'-Hexabromodiphenyl ether (PBDE 154) (CAS Polybrominated Diphenyl Ethers (PBDEs) Action Plan

207122-15-4)

2,2',4,4',5-Pentabromodiphenyl Ether (CAS 60348-60-9) Polybrominated Diphenyl Ethers (PBDEs) Action Plan Polybrominated Diphenyl Ethers (PBDEs) Action Plan

2,2',4,4'-Tetrabromodiphenyl ether (CAS 5436-43-1)

2,4,4'-Tribromodiphenyl Ether (BDE-028) (CAS Polybrominated Diphenyl Ethers (PBDEs) Action Plan

41318-75-6)

2.2'.4.4'.6-Pentabromodiphenyl ether (CAS 189084-64-8) Polybrominated Diphenyl Ethers (PBDEs) Action Plan

Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5) Polybrominated Diphenyl Ethers (PBDEs) Action Plan

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

2,2',4,4',5,5'-Hexabromodiphenyl Ether (CAS Listed. 68631-49-2)

2,2',4,4',5-Pentabromodiphenyl Ether (CAS 60348-60-9) Listed. 2,2',4,4'-Tetrabromodiphenyl ether (CAS 5436-43-1) Listed.

2,4,4'-Tribromodiphenyl Ether (BDE-028) (CAS Listed.

41318-75-6)

n-Nonane (CAS 111-84-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

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## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material **US** state regulations is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,

subd. (a)) 2,2',3,4,4',5',6-Heptabromodiphenyl ether(BDE 183) (CAS 207122-16-5)

2,2',4,4',5,5'-Hexabromodiphenyl Ether (CAS 68631-49-2)

2,2',4,4',5,6'-Hexabromodiphenyl ether (PBDE 154) (CAS 207122-15-4)

2,2',4,4',5-Pentabromodiphenyl Ether (CAS 60348-60-9) 2,2',4,4'-Tetrabromodiphenyl ether (CAS 5436-43-1) 2,4,4'-Tribromodiphenyl Ether (BDE-028) (CAS 41318-75-6) 2.2'.4.4'.6-Pentabromodiphenyl ether (CAS 189084-64-8)

Decabromodiphenyl ether (BDE 209) (CAS 1163-19-5)

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date 04-08-2021 04-08-2021 **Revision date** 

Version # 02

NFPA ratings Health: 2

Flammability: 3 Instability: 0

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#### Disclaimer

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Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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