

# Safety Data Sheet per OSHA HazCom 2012

Reviewed o	on 05/16/2014
1 Identification	
Product identifier Product name: 1,3-Dibromoacetone	
Stock number: H37325	
CAS Number: 816-39-7	
EC number: 212-430-8	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.	
GHS07	
Skin Sens. 1 H317 May cause an allergic skin reaction. <b>Hazards not otherwise classified</b> No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS05 GHS07	
Signal word Danger Hazard statements	
H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.	
Precautionary statements	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. <b>WHMIS classification</b> D2B - Toxic material causing other toxic effects	
E - Corrosive material	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
HEALTH I Health (acute effects) = 3 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
816-39-7 1,3-Dibromoacetone Identification number(s):	
EC number: 212-430-8	
4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product.	ontd. on page 2)
	USA -

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After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes serious eye damage. Causes serious eye damage.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Store away from air. Protect from heat. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inet gas. Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant information available.	
<ul> <li>8 Exposure controls/personal protection</li> <li>Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.</li> <li>Control parameters</li> <li>Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.</li> <li>Additional information: No data</li> <li>Exposure controls</li> <li>Personal protective equipment</li> <li>General protective and hygienic measures</li> <li>The usal precautionary measures for handling chemicals should be followed.</li> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Remove all soiled and contaminated clothing immediately.</li> <li>Wash hands before breaks and at the end of work.</li> <li>Avoid contact with the eyes and skin.</li> <li>Mainti an ergonomically appropriate working environment.</li> <li>Breathing equipment: Use suitable respirator when high concentrations are present.</li> <li>Protective of hands:</li> <li>Impervious gloves</li> <li>Check protective gloves prior to each use for their proper condition.</li> <li>The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.</li> <li>Penetration time of glove material (in minutes) Not determined</li> <li>Exportection:</li> <li>Tightly sealed goggles</li> <li>Full face protection.</li> <li>Protection:</li> <li>Protection.</li> </ul>	
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9 Physical and chemical properties	3		
Information on basic physical and ch General Information Appearance:			
'Form: Color: Odor:	Crystalline or fused solid White to pale yellow Not determined		
Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	29-30 °C (84-86 °F) 97-98 °C (207-208 °F) (21mm) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	102 °C (216 °F) Not determined. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	Not applicable.		
kinematic: Other information	Not applicable. No further relevant information available.		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Air Oxidizing agents Heat Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide			
11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/L C50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: May cause an allergic skin reaction. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known.			

#### 12 Ecological information

 Ecological Information

 Toxicity

 Aquatic toxicity: No further relevant information available.

 Persistence and degradability No further relevant information available.

 Bioaccumulative potential No further relevant information available.

 Mobility in soil No further relevant information available.

 Additional ecological information:

 General notes:

 Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

 Avoid transfer into the environment.

 Results of PBT and vPvB assessment

 PJT: Not applicable.

 VPVB: Not applicable.

 Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.

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### Product name: 1,3-Dibromoacetone

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Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Conta. of page 3)			
14 Transport information				
UN-Number DOT, IMDG, IATA	UN1759			
UN proper shipping name				
DOT IMDG, IATA	Corrosive solids, n.o.s. (1,3-Dibromoacetone) CORROSIVE SOLID, N.O.S. (1,3-Dibromoacetone)			
Transport hazard class(es) DOT				
Class Label Class Label IMDG, IATA	8 Corrosive substances. 8 8 (C10) Corrosive substances 8			
Class Label	8 Corrosive substances. 8			
Packing group DOT, IMDG, IATA	II.			
Environmental hazards:	Not applicable.			
Special precautions for user	Warning: Corrosive substances			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	e Not applicable.			
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN1759, Corrosive solids, n.o.s. (1,3-Dibromoacetone), 8, II			
<b>15 Regulatory information</b> Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 GHS07				
Signal word Danger         Hazard statements         H314 Causes severe skin burns and eye damage.         H317 May cause an allergic skin reaction.         Precautionary statements         P260       Do not breathe dust/fume/gas/mist/vapours/spray.         P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clo         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.         P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regio         National regulations       All components of this product are listed in the U.S. Environmental Protection A         All components of this product are listed on the Canadian Non-Domestic Substate         SARA Section 313 (specific toxic chemical listings) Substance is not listed.         Prop 65 - Chemicals known to cause cancer Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, and Substance is not listed.         Prop 65 - Developmental toxicity, and Substance is not listed.         Prop 65 - Developmental toxicity, and Substance is not listed.         Prop 65 - Developme	nal/national/international regulations. Igency Toxic Substances Control Act Chemical substance Inventory. ances List (NDSL).			

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the

market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

### Product name: 1,3-Dibromoacetone

CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UPUS: Lethal dose, 50 percent VPUS: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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