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Version 1
1 Identification
Product identifier Product name: Isophorone diisocyanate, mixture of isomers
Stock number: L13759
CAS Number:
4098-71-9 EC number:
223-861-6 Index number:
615-008-00-5 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
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)
GHS06 Skull and crossbones
Acute Tox. 2 H330 Fatal if inhaled.
GHS08 Health hazard
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS07
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.
Śkin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS06 GHS08
Signal word Danger
Hazard statements
H330 Fatal if inhaled. H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergý or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.
Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapors/spray. P284 [In case of inadequate ventilation] wear respiratory protection. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P320 Specific treatment is urgent (see on this label).
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4)
(Hazardou's Materials Identification System)
HEALTH I Health (acute effects) = 3 FIRE I Flammability = 1
Reactivity 1 Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment

Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

(Contd. of page 1)

Product name: Isophorone diisocyanate, mixture of isomers

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description: 4098-71-9 Isophorone diisocyanate Concentration: ≤100% Identification number(s): EC number: 223-861-6 Index number: 615-008-00-5

4 First-aid measures

Description of first aid measures

General information Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. 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 offacts, both acute and delayed

Most important symptoms and effects, both acute and delayed Causes skin irritation.

Causes serious eye irritation. Fatal if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

Extinguishing media 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 Nitrogen oxides (NOx) 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 Envire adequate ventilation: Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. 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. Protective Action Criteria for Chemicals PAC-1: 0.02 ppm PAC-2: 0.14 ppm PAC-3: 0.6 ppm

7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Ensure good ventilation at the workplace. Open and handle container with care. 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: Protect from heat. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Protect from humidity and water. Refrigerate Specific end use(s) No further relevant information available.

(Contd. on page 3)

LIS A

Product name: Isophorone diisocyanate, mixture of isomers

(Contd. of page 2)

-	ers			
		quire monitoring at the workplace:		
	orone diisocyanate (1 ort-term value: 0.18 m			
Lon	ort-term value: 0.18 mg g-term value: 0.045 m	'g/m³, 0.005 ppm		
	Long-term value: 0.045 mg/m ³ , 0.005 ppm			
EL (Canada) Lon	g-term value: 0.005 p	m		
S	Ceiling limit value: 0.01 ppm S			
EV (Canada) Lon	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm			
Additional inform				
The usual precau Keep away from fi Remove all soiled Wash hands befo. Store protective c. Avoid contact with Maintain an ergon Breathing equipp Recommended f Use a respirator w determine if air-pu CEN (EU). Protection of han Impervious gloves Check protective of The selection of s Material of glove Penetration time Glove thickness: Eye protection: S Body protection: Physical and c Information on b General Information	ive equipment re and hygienic meas ionary measures for h bodstuffs, beverages a and contaminated clo re breaks and at the e- othing separately. the eyes and skin. omically appropriate v ment: Use self-contain iter device for short iter multi-purpose con ment: Use self-contain iter device for short iter multi-purpose con the mical gloves not only s Nitrile rubber, NBR of glove material (in 0.4 mm afety glasses with sid Protective work clothin hemical properties asic physical and ch	and freed. thing immediately. nd of work. vorking environment. red respiratory protective device in emergency situations. term use: bination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) of see for their proper condition. <i>'</i> depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) 113 le shields / NIOSH (US) or EN 166(EU) ing.		
Appearance:		Liquid		
Form: Odor:		Liquid Not determined		
Form: Odor: Odor threshold:		Not determined Not determined.		
Form: Odor: Odor threshold: pH-value:	tion	Nót determined		
Form: Odor: Odor threshold: pH-value: Change in condi Melting point/N	lelting range:	Not determined Not determined. Not determined.		
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Form: Odor: Ddor threshold: pH-value: Change in condi Melting point/N Boiling point/B Sublimation te Flash point:	lelting range: oiling range: nperature / start:	Not determined Not determined. Not determined. -60 °C (-76 °F) 153 °C (307 °F) (10mm) Not determined 163 °C (325 °F)		
Form: Odor: Ddor threshold: pH-value: Change in condi Melting point/M Boiling point/B Sublimation tei Flash point: Flammability (so	lelting range: oiling range: mperature / start: lid, gaseous)	Not determined Not determined. -60 °C (-76 °F) 153 °C (307 °F) (10mm) Not determined 163 °C (325 °F) Not determined.		
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Form: Odor: Odor: pH-value: Change in condi Melting point/B Boiling point/B Sublimation te Flash point: Flammability (so Ignition tempera Decomposition t Auto igniting:	letting range: oiling range: mperature / start: lid, gaseous) ture: emperature:	Not determined Not determined. Not determined. -60 °C (-76 °F) 153 °C (307 °F) (10mm) Not determined 163 °C (325 °F) Not determined. 430 °C (806 °F) Not determined Not determined Not determined.		
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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: Oxidizing agents Heat Water/moisture

Product name: Isophorone diisocyanate, mixture of isomers

Hazardous decomposition products: Carbon monoxide and carbon dioxide (Contd. of page 3)

Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: Fatal if inhaled.				
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification:				
Oral LD50 4825 mg/kg (rat)				
Inhalative LC50/4H 0.123 mg/l/4H (rat) Skin irritation or corrosion: Causes skin irritation.				
Eye irritation or corrosion: May cause irritation Sensitization:				
May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.				
Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.				
Aspiration nazard, no energy internets known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 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 product to reach ground water, water course or sewage system.				
Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.				
Toxic to aquatic life. May cause long lasting harmful effects to aquatic life				
Avoid transfer into the environment. Results of PBT and vPvB assessment				
PBT: 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.				
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	alopooul.			
14 Transport information UN-Number				
DOT, IMDG, IATA	UN2290			
UN proper shipping name DOT	Isophorone diisocyanate			
ADR IMDG, IATA	2290 Isophorone diisocyanate ISOPHORONE DIISOCYANATE			
Transport hazard class(es)				
DOT				
See Terre				
Class	6.1 Toxic substances			
Label ADR	6.1			
Class	6.1 (T1) Toxic substances			
Label IMDG, IATA	6.1			
Class Label	6.1 Toxic substances 6.1			
Packing group DOT, ADR, IMDG, IATA	III			
	(Contd. on page 5) USA —			



Product name: Isophorone diisocyanate, mixture of isomers (Contd. of page 4) Environmental hazards: Not applicable Special precautions for user Warning: Toxic substances EMS Number: F-A,S-À в Stowage Category Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L Quantity limitations Marine Pollutant (DOT): No IMDG Limited quantities (LQ) 5L Code: E1 Excepted quantities (ÉQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN "Model Regulation": UN 2290 ISOPHORONE DIISOCYANATE, 6.1, III 15 Regulatory information 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 ł GHS06 GHS08 Signal word Danger Hazard statements H330 Fatal if inhaled. H330 Fatal it innaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

 Procautionary statements

 P260
 Do not breathe dust/fume/gas/mist/vapors/spray.

 P284
 [In case of inadequate ventilation] wear respiratory protection.

 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P300
 Specific treatment is urgent (see on this label).

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) 4098-71-9 Isophorone diisocyanate California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 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. 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 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/Revision: Print date, revision date and version number are in the header of each page. 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 dassociation ENRCS: Curopean Inventory of Existing Commercial Chemical Substances 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 dose, 50 percent PBT: Persistent, Bioaccumulative ACGHI: American Conferences of Governmental Industrial Hygienists (USA) QSHA: Occupational Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox. 2: Acute toxicity - Category 2 Eye Imit. 24: Serious eye damage/eye intilation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisa Department issuing SDS: Global Marketing Department USA