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Version 1
1 Identification Product identifier
Product name: N,N'-Diisopropylcarbodiimide
Stock number: A19292 CAS Number: 693-13-0 EC number: 211-743-7
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)
Flam. Liq. 3 H226 Flammable liquid and vapor.
GHS06 Skull and crossbones
Acute Tox. 1 H330 Fatal if inhaled.
GHS08 Health hazard
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS05 Corrosion
Eye Dam. 1 H318 Causes serious eye damage.
Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified Stench
Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS02 GHS05 GHS06 GHS08
Signal word Danger
Hazard statements H226 Flammable liquid and vapor.
H330 Fatal if inhaled. H315 Causes skin irritation.
H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. 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.
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
B2 - Flammable liquid
D1A - Very toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects

(Contd. of page 1)

Product name: N,N'-Diisopropylcarbodiimide

Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

ALTH I Health (acute effects) = 3 RE I Flammability = 3 ACTIVITY I 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: 693-13-0 N,N'-Diisopropylcarbodiimide Concentration: ≤100% Identification: characterication Identification number(s): EC number: 211-743-7

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 effects, both acute and delayed** Causes skin irritation. Fatal if inhaled. Fata if innaied. Causes serious eye damage. 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 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. Extinguishing media

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Ensure adequate ventilation Keep away from ignition sources 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. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. Protective Action Criteria for Chemicals Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

7 Handling and storage

Handling

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away.

(Contd. on page 3)

Product name: N,N'-Diisopropylcarbodiimide (Contd. of page 2) Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from water/moisture. Do not store together with acids. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. **Specific end use(s)** No further relevant information available. 8 Exposure controls/personal protection 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. Control parameters 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. Additional information: No data Exposure controls Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use self-contained respiratory protective device in emergency situations. Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). CEN (EU). **Protection of hands:** Impervious gloves Impervious gioves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 62 Glove thickness: 0.4 mm **Eve protection:** Tightly sealed goggles Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Odor Stench Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 145-148 °C (293-298 °F) Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: 33 °C (91 °F) Not determined Not determined Not determined Auto igniting: Not determined. Danger of explosion: Explosion limits: Lower: Upper: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Not determined 0.81 g/cm³ (6.759 lbs/gal) Not determined. Not determined. Evaporation rate Solubility in / Miscibility with Not determined. Water: Decomposes Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: kinematic: Not determined. Not determined. Other information No further relevant information available. 10 Stability and reactivity

Reactivity No information known.

(Contd. on page 4)

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: Acids Oxidizing agents Water/mositive omposition products: Carbon menoxide and carbon dioxide Witegen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: Fatai if inheled. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that ar relevant for classification: Inhalative [LC50/4H]0.105 mg/V4H (rat) Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin irritation. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Substance to ochroin; the Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information Toxicity Aquatic toxicity; No further relevant information a	td. of page 3)		
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12 Ecological information Toxicity Aquatic toxicity: No further relevant information available.			
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: 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.			
14 Transport information			
UN-Number DOT, IMDG, IATA UN2929			
UN proper shipping name DOT Toxic liquids, flammable, organic, n.o.s. (N,N'-Diisopropylcarbodiimide)			
ADR 2929 Toxic liquids, flammable, organic, h.o.s. (N,N'-Dilsopropylcarbodiim IMDG, IATA TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (N,N'-Dilsopropylcarbod	ide) odiimide)		
Transport hazard class(es)			
Class 6.1 Toxic substances			
Label 6.1, 3 ADR			
Class 6.1 (TF1) Toxic substances Label 6.1+3 IMDG 6.1+3			
Class 6.1 Toxic substances	d. on page 5)		

Product name: N,N'-Diisopropylcarbodiimide

	(Contd. of page 4)	
Label	6.1/3	
ΙΑΤΑ		
Class	6.1 Toxic substances	
Label	6.1 (3)	
Packing group DOT, ADR, IMDG, IATA	11	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Toxic substances	
	F-E,S-Ď B	
Stowage Category Stowage Code	B 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		
Quantity limitations	On passenger aircraft/rail: 5 L	
Marine Pollutant (DOT):	On cargo aircraft only: 60 L No	
IMDG		
Limited quantities (LQ)	100 ml	
Excepted quantities (ÉQ)	Code: E4 Maximum pet quantity per inner packaging: 1 ml	
	Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml	
UN "Model Regulation":		
	UN 2929 TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S. (N,N'- DIISOPROPYLCARBODIIMIDE), 6.1 (3), II	

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)



GHS02 GHS05 GHS06 GHS08

Signal word Danger

- **Hazard statements** H226 Flammable liquid and vapor. H330 Fatal if inhaled.

- H330 Fatal II Innaled. H315 Causes skin irritation. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. **Precautionary statements** P210 Keen away from heat/sparks/open flames/hot surfaces. No s
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. 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. P320 Specific treatment is urgent (see on this label). P405 Store locked up.
 - - Dispose of contents/container in accordance with local/regional/national/international regulations.

P501

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 Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. 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. 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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) IMOG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European 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 concentration, 50 percent

(Contd. on page 6)



Product name: N,N'-Diisopropylcarbodiimide

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern VPVB: 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) Flam. Lig. 3: Flammable liquids – Category 3 Acute Tox. 1: Acute toxicity – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Stor SE 3: Specific target organ toxicity (single exposure) – Category 3 (Contd. of page 5)

USA