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1 Identification	
Product identifier Product name: Diglycolic anhydride	
Stock number: B24498, L10133	
CAS Number: 4480-83-5	
EC number: 224-761-5	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
The most of the 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) 928-076	89.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation	
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	
\wedge	
GHS07	
Signal word Warning Hazard statements H21F Courses win irritation	
H315 Causes skin irritation. H319 Causes serious eye irritation. H325 Max expertance irritation	!
H335 May cause respiratory irritation. Precautionary statements Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / eye protection / face 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.	
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
A	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 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: 4480-83-5 Diglycolic anhydride	
Concentration: ≤100% Identification number(s):	
EC number: 224-761-5	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
	(Contd. on page 2) USA

Product name: Diglycolic anhydride

(Contd. of page 1) 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. Causes serious eye irritation. 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: Or how monovide and earthen dioxiden discussion. Carbon monoxide and carbon dioxide 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:** Ensure adequate ventilation. Preventions and material for containment and cleaning up. Ensure 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:** 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. 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: No special requirements. Information about storage in one common storage facility: 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. 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 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges 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. Impervious gloves

Impervious gloves 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. **Eye protection:** Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

USA (Contd. on page 3)

(Contd. of page 2)

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9 Physical and chemical properties	S
Information on basic physical and ch General Information Appearance:	
Appearance. Form: Odor:	Crystalline powder Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	91-94 °C (196-201 °F) 240-241 °C (464-466 °F) Not determined Not determined 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	Not determined. Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.
Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
Conditions to avoid No further relevan Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for of Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects know Germ cell mutagenicity: No effects know Carcinogenicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known	t information available. Carbon dioxide classification: No data e irritation e irritation own. own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecological information Toxicity Aquatic toxicity: No further relevant int Persistence and degradability No further Bioaccumulative potential No further in Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	relevant information available. rmation available. quantities to reach ground water, water course or sewage system. It
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings:	or national regulations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be m	nade according to official regulations. USA (Contd. on page 4)

(Contd. on page 4)

Product name: Diglycolic anhydride

(Contd. of page 3)

4 Transport information	
UN-Number	
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable
DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	
DOT, ADR, IMDG, IATA Environmental hazards:	Not applicable Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
5 Regulatory information	
Safety, health and environmental regulations/legislation s	specific for the substance or mixture
GHS label elements The product is classified and labeled in Hazard pictograms	accordance with 29 CFR 1910 (OSHA HCS)
\wedge	
GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors	
P280 Wear protective gloves / eve protection / fa	ace protection.
P304+P340 IF INHALED: Remove person to fresh air a P405 Store locked up.	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing.
P501 Dispose of contents/container in accordan	nce with local/regional/national/international regulations.
National regulations This product is not listed in the U.S. Environmental Protection	n Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict
to research and development only. This product must be used	n Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict d by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial nurnoses
product must not be used for commercial purposes or in form This product is not listed on the Canadian Domestic Substant	and List (DSL) or the Canadian Non Domostic Substances List (NDSL)
SARA Section 313 (specific toxic chemical listings) Subst California Proposition 65	tes Elsi (DSE) of the Canadian Non-Domestic Substances Elsi (NDSE).
	tance is not listed.
Prop 65 - Chemicals known to cause cancer Substance is	tance is not listed.
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