



1 Identification Product identifier Product name: Ethoxyacetic acid Stock number: B24194, L12918 CAS Number: 627-03-2 EC number: 210-928-2 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. Inerrito Fisher Scheman C. 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) EZ GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. 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 E.F. GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not b 

 Precationary statements

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

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P303+P361+P353 IF ON SKIN (or hair): Remove/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.

 P304+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

 P304+P340
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

 P310
 Immediately call a POISON CENTER/doctor.

 P363
 Wash contaminated clothing before reuse.

P310 P363 Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 P501 WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material 12 Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 3
 Flammability = 1
 Physical Hazard = 1 EACTIVITY 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: 627-03-2 Ethoxyacetic acid Identification number(s): EC number: 210-928-2 4 First-aid measures Description of first aid measures **General information** Immediately remove any clothing soiled by the product. **After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. (Contd. on page 2)

Product name: Ethoxyacetic acid	
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 severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(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 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. 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 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. 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 oxidizing agents. Further information about storage conditions: Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. 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 multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as I CEN (EU).	performed to VIOSH (USA) or
Protectión of hands: 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. Material of gloves Butyl rubber, BR Penetration time of glove material (in minutes) 480 Glove thickness 0.3 mm Eye protection: Tightly sealed goggles Full face protection	
Body protection: Protective work clothing.	USA USA (Contd. on page 3)
	(Conta. on page 3)

Product name. Ethoxyacetic actu		Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Odor:	emical properties Liquid Pungent	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 207 °C (405 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	97 °C (207 °F) Not determined Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F):	Not determined Not determined Not determined 1.102 g/cm <sup>3</sup> (9.196 lbs/gal)	
Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined. Not determined. Not determined.	
Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: ( 11 Toxicological information Information on toxicological effects Acute toxicity:	ts Carbon monoxide and carbon dioxide	
Swallowing will lead to a strong corrosive The Registry of Toxic Effects of Chemica LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	vere skin burns. ious eye damage. wn.	
Carcinogenicity: No classification data Reproductive toxicity: The Registry of Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known.	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. • <b>repeated exposure:</b> No effects known. • <b>single exposure:</b> No effects known.	
Subacute to chronic toxicity: The Reg Additional toxicological information:	istry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Fo the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Carcinogenic categories OSHA-Ca (Occupational Safety & Hea	Ith Administration) Substance is not listed.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant infr Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes:	er relevant information available. elevant information available. mation available. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
		USA USA Ontd. on page 4)

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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 LD50: Lethal concentration, 50 percent ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: Netronal Toxicology Program (USA) ACC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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USA