



1 Identification
Product identifier
Product name: Ethyl nipecotate
Stock number: B24155 CAS Number: 5006-62-2 EC number: 225-681-3
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)
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
H227 Combustible liquid. 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
GHS07
Signal word Warning Hazard statements H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation.
H335 May cause respiratory irritation. Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dustfitume/ass/mist/apou/urs/spray.
P280 Wear protective gloves/protective/clovels/protection/face protection. P280 Wear protective gloves/protection/ing/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.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification B3 - Combustible liquid
D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH       I         HEALTH       I         PRE       2         Flammability = 2         REACTVITY       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: 5006-62-2 Ethyl nipecotate
Identification number(s): EC number: 225-681-3

USA (Contd. on page 2)

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Product name: Ethyl nipecotate	
	(Contd. of page 1)
<ul> <li>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.             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 No further relevant information available.             Indication of any immediate medical attention and special treatment needed No further relevant information available.</li></ul>	
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.	
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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.         Ensure good ventilation at the workplace.         Information about protection against explosions and fires: Keep ignition sources away.         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 oxidizing agents.         Store away from air.         Protect from heat.         Further information about storage conditions:         Store under dry inert 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 and hygienic measures</li> <li>General protective and hygienic measures</li> <li>The usual precautionary measures for handling chemicals should be followed.</li> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Remove all solied and contaminated clothing immediately.</li> <li>Wash hands before breaks and at the end of work.</li> <li>Do not inhale dust / smoke / mist.</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>Protection of hands: Impervious gloves</li> <li>Check protective gloves prior to each use for their proper condition.</li> <li>The section 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>Eve protection: Protective work clothing.</li> </ul>	USA

## Product name: Ethyl nipecotate

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(Contd. of page 2)

9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: 'Form: Liquid Not determined Odor: Odor threshold: Not determined. pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined 102-104 °C (216-219 °F) (7mm Hg) Sublimation temperature / start: Not determined Flash point 90 °C (194 °F) Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determinéd. Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Product does not present an explosion hazard. Lower: Not determined Upper: Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density Not determined 1.01 g/cm³ (8.428 lbs/gal) Not determined. Vapor density Not determined. Evaporation rate Solubility in / Miscibility with Not determined. Not determined Water Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not determined. kinematic: Not determined. Other information 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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Air Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. 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: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. 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 material to be released to the environment without proper governmental permits. 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 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       Not applicable         Why more mode, IATA       Not applicable         UN progeneration, IATA       Not applicable         Proceeding group       Not applicable         Transport Information       Not applicable         Proceeding group       Not applicable         Poor, MDR, ADN, MDC, IATA       Not applicable         Poor, MDR, ADN, MDC, IATA       Not applicable         Poor, MDR, Carta       Not applicable         Prot, MDR, Carta       Not applicable         Prot, MDR, Marca       Not applicable         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport/Additional Information:         Darma Politiant (DOT):       No       No         UN 'Model Regulation':       -       -         VW Gold Regulation':       -       -         VW Gold Regulation':       -       -         VW Gold Regulation':       -       -         VW Model Regulation is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)       -         Marca and statements       -       -         VW Model Regulation.       -       -         VW Model Regulation in the Additional Information.       -       -         State Post Hold Cond Info	Reviewed on 10/03/2013		
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<ul> <li>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 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.</li> <li>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 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 of 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</li> </ul>	Hazard pictograms         View         GHS07         Signal word Warning         Hazard statements         H227 Combustible liquid.         H319 Causes skin irritation.         H319 Causes skin irritation.         H319 Causes skin irritation.         H327 Combustible liquid.         H319 Causes skin irritation.         H326 Causes skin irritation.         H327 Combustible liquid.         H319 Causes serious eve irritation.         H227 Combustible liquid.         H319 Causes skin irritation.         H327 Cause skin irritation.         H227 Combustible liquid.         H319 Causes skin irritation.         H328 May cause respiratory irritation.         Precautionary statements         P210       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye 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.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         National regulations       Thi		
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of 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 of 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	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. Annex XIV of the REACH Regulations (reguiring Authorisation for use) Substance is not listed.		
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)         DOT: US Department of Transportation         EINECS: Europeen 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)         LCS0: Lethal concentration, 50 percent         VPVB: very Persistent and very Bioaccumulative         VPVB: very Persistent and very Bioaccumulative         ACG(Hr. American Conference of Governmental Industrial Hygienists (USA)         OSHA: Occupational Safety and Health Administration (USA)         NTP: National Toxicology Program (USA)	<ul> <li>Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employed conformance with this Material Safety Data Sheet, or in combination with any or Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreemer DT: US Department of Transportation</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS; Hazardous Materials Identification System (USA)</li> </ul>	es." This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.	

- OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA -