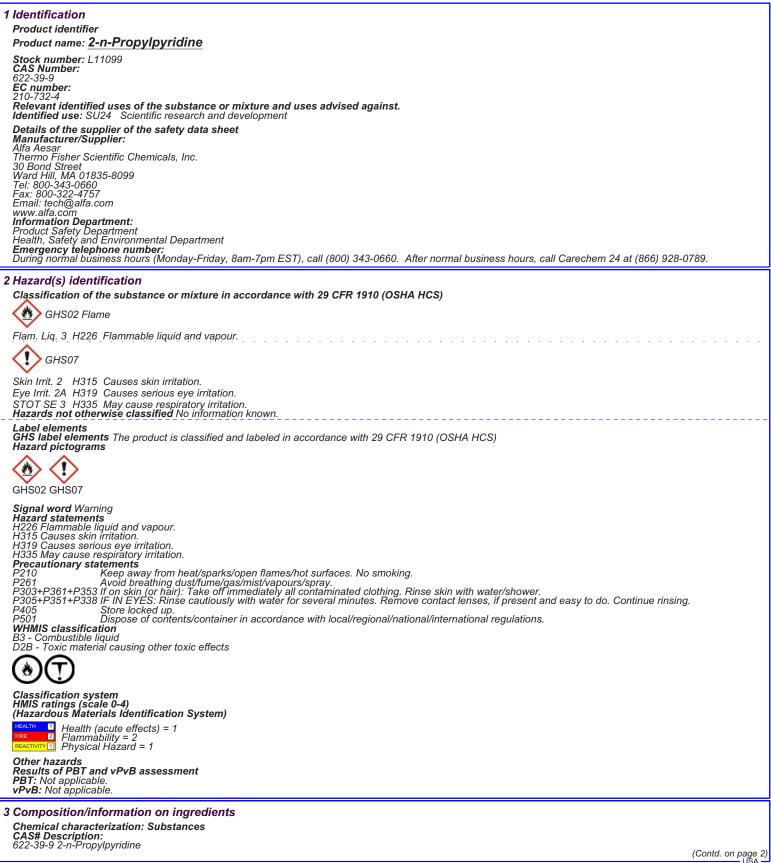


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-n-Propylpyridine

Identification number(s): EC number: 210-732-4

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.

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: 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. 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: Keep ignition sources away. 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: Not required. Additional information: No data

 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.

 Protection of hands:

 Impervious gloves

 Check protective dloves prior to each use for their proper condition.

 Impervious gives 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. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing. (Contd. of page 1)

		(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color:	emical properties Liquid Colorless	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 169-171 °C (336-340 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	56 °C (133 °F) Not determined Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	t information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further re Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to to Do not allow undiluted product or large of Addit temperor into the onvironment	ner relevant information available. elevant information available.	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	t	

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.

(Contd. on page 4)

USA

Safety Data Sheet per OSHA HazCom 2012

Product name: 2-n-Propylpyridine

(Contd. of page 3)

14 Transport information	
UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name DOT	Elammahla liquida n.o.s. (2-n-Pronulnuridina)
IMDG, IATA	Flammable liquids, n.o.s. (2-n-Propylpyridine) FLAMMABLE LIQUID, N.O.S. (2-n-Propylpyridine)
Transport hazard class(es)	
DOT	
Class Label	3 Flammable liquids. 3
Class	3 (F1) Flammable liquids
Label IMDG, IATA	3
Class Label	3 Flammable liquids. 3
	3
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	pde Not applicable.
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (2-n-Propylpyridine), 3, III
15 Regulatory information	
Safety, health and environmental regulations/legislation specific for the GHS label elements The product is classified and labeled in accordance with Hazard pictograms	o smoking. clothing. Rinse skin with water/shower. es. Remove contact lenses, if present and easy to do. Continue rinsing. gional/national/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. stances List (NDSL). d. dividuals. lations (EC) No. 1907/2006. Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Safety, health and environmental regulations/legislation specific for the GHS label elements The product is classified and labeled in accordance with Hazard pictograms With Hazard pictograms With Pictor GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H319 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. Not Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated or P305+P351+P333 If on skin (or hair): Take off immediately all contaminated or P305+P351+P333 IF in VESS: Rinse cautiously with water for several minute P405 Store locked up. P501 Dispose of contents/container in accordance with local/reg National regulations All components of this product are listed in the U.S. Environmental Protection All components of this product are listed in the Canadian Non-Domestic Subs SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not l	o smoking. clothing. Rinse skin with water/shower. es. Remove contact lenses, if present and easy to do. Continue rinsing. gional/national/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. stances List (NDSL). d. dividuals. dividuals. lations (EC) No. 1907/2006, Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the Substance is not listed. a carried out. tion gathered by them, and should make independent judgement of suitability of this ees. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.
 Safety, health and environmental regulations/legislation specific for the GHS label elements. The product is classified and labeled in accordance with Hazard pictograms 	o smoking. clothing. Rinse skin with water/shower. es. Remove contact lenses, if present and easy to do. Continue rinsing. gional/national/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. stances List (NDSL). d. dividuals. dividuals. lations (EC) No. 1907/2006, Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the Substance is not listed. a carried out. tion gathered by them, and should make independent judgement of suitability of this ees. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user.

- 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 UD50: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTF: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA