# Safety Data Sheet



Revision date 04/08/2016
1 Identification
Product identifier
Product name: <u>2-VinyInaphthalene</u> Stock number: A12470
CAS Number: A12470 CAS Number: 827-54-3
627-34-3 <b>EC number:</b> 212-573-6
212-073-0 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
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757
Email: tecn@alta.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
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye 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
GHS07
GHS07 Signal word Warning
Hazard statements H302+H332 Harmful if swallowed or if inhaled.
H215 Courses alvin irritation
H315 Causes skin initiation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avid broothing duet/fume/gap/mist/uppourg/gpray.
P260 Wear protective gloves/protective clothing/eve protection/face protection
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/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 victim to fresh air and keep at rest in a position 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
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Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
HEALTH       I         Health (acute effects) = 2         FIRE       I         Flammability = 1         REACTIVITY       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:
827-54-3 2-VinyInaphthalene
Identification number(s): EC number: 212-573-6
4 First-aid measures
Description of first aid measures After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. (Contd. on page 2)

## Product name: 2-VinyInaphthalene (Contd. of page 1) 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. Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Exanguishing 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 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: Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of concentrative becords: No constitution 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. 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: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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. 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 P100 (USA) or P3 (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. Protection of hands: 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. Material of gloves Butyl rubber, BR Dependent of the superfermed for the minutes) 400 Penetration time of gloves Bacy rubber, BR Penetration time of glove material (in minutes) 480 Glove thickness 0.3 mm Eye protection: Safety glasses Body protection: Protective work clothing. USA (Contd. on page 3)

9 Physical and chemical properties

(Contd. of page 2)

#### Information on basic physical and chemical properties General Information Appearance: Form: Powder Odor: Odor threshold: Not determined Not determined pH-value: Not applicable. . Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 62-67 °C (144-153 °F) 128-131 °C (262-268 °F) (13mm) Not determined Flash point: > 110 °C (> 230 °F) Flash point. Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: Not determined Not determined Not determined Not determined Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Not determined. Not determined Not determined Not applicable. Not determined Density: Relative density Not determined. Vapor density Evaporation rate Not applicable. Not applicable. Solubility in / Miscibility with Water: Insoluble Viscosity: dynamic: kinematic: Not applicable. Not applicable. 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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide 11 Toxicological information Information on toxicological effects Acute toxicity: Acute toxicity: Harmful if inhaled. Harmful if swallowed. LD/LC50 values that are relevant for classification: No data 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.

Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

#### 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 accurated information available. Additional ecological information: General notes: General notes: 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. Product name: 2-VinyInaphthalene

	(Contd. of page 3
4 Transport information	
UN-Number	Natapplicable
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable
DOT, ADN, IMDG, ĬATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	
	Not applicable
Environmental hazards: Special precautions for user	Not applicable. Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 an	
Transport/Additional information:	
DOT Morine Bellutent (DOT):	Ma
Marine Pollutant (DOT): UN "Model Regulation":	No
on model regulation .	
5 Regulatory information	
Safety, health and environmental regulations/legislation spe GHS label elements The product is classified and labeled in ac Hazard pictograms	ecific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
GHS07	
<ul> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance</li> <li>National regulations</li> <li>All components of this product are listed on the Canadian Dome</li> <li>This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used b product must not be used for commercial purposes or in formula</li> <li>SARA Section 313 (specific toxic chemical listings) Substant</li> <li>California Proposition 65</li> <li>Prop 65 - Chemicals known to cause cancer Substance is not listed.</li> <li>Prop 65 - Developmental toxicity, female Substance is not listed information about limitation of use: For use only by technical Other regulations, limitations and prohibitive regulations</li> </ul>	ye protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 'keep at rest in a position comfortable for breathing. e with local/regional/national/international regulations. estic Substances List (DSL). Igency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. to e is not listed. ot listed. d. Ily qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Super XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Employers should use this information only as a supplement to or information to ensure proper use and protect the health and safe conformance with this Material Safety Data Sheet, or in combine <b>Department issuing SDS:</b> Global Marketing Department	other information gathered by them, and should make independent judgement of suitability of this ety of employees. This information is furnished without warranty, and any use of the product not in ation with any other product or process, is the responsibility of the user. European Agreement concerning the International Carriage of Dangerous Goods by Road) 