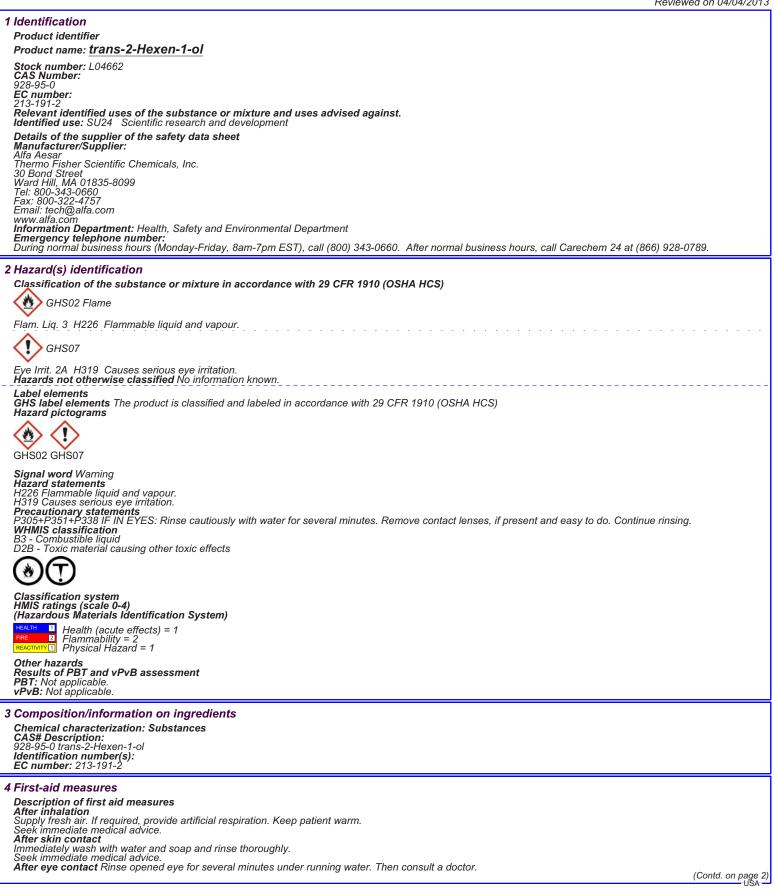


Safety Data Sheet per OSHA HazCom 2012



Product name: trans-2-Hexen-1-ol	
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.	(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 f 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.	īoam.
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources 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 7 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: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. 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: Do not store together with acids. 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 end hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintai an ergonmically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with organic vapor cartidges as a backup to engineering controls. Risk asses	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Liquid	
	(Contd. on page 3) USA

Safety Data Sheet per OSHA HazCom 2012

Product name: trans-2-Hexen-1-0

Product name: trans-2-Hexen-1-ol				
		(Contd. of page 2)		
Color:	Colorless to pale yellow			
Odor: Odor threshold:	Pleasant Not determined.			
pH-value:	Not determined.			
Change in condition	Not dotominiou.			
Melting point/Melting range:	Not determined			
Boiling point/Boiling range: Sublimation temperature / start:	158-160 °C (316-320 °F) Not determined			
Flash point:	54 °C (129 °F)			
Flammability (solid, gaseous)	Not determined.			
Ignition temperature: Decomposition temperature:	Not determined			
Auto igniting:	Not determined Not determined.			
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.			
Explosion limits: Lower:	Not determined			
Upper:	Not determined			
Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F):	6.3 hPa (5 mm Hg)			
Relative density	0.843 g/cm³ (7.035 lbs/gal) Not determined.			
Vapor density	Not determined. Not determined.			
Evaporation rate Solubility in / Miscibility with	Not determined.			
Water: Partition apofficient (n aptenol/water)	Slightly soluble			
Partition coefficient (n-octanol/water) Viscosity:	. Not determined.			
dynamic:	Not determined.			
kinematic: Other information	Not determined. 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.				
Acids				
Oxidizing agents Hazardous decomposition products:	Carbon monoxide and carbon dioxide			
· · ·				
11 Toxicological information				
Information on toxicological effects Acute toxicity: The Registry of Toxic F	iffects of Chemical Substances (RTECS) contains acute toxicity data for this substance.			
LD/LC50 values that are relevant for classification:				
Oral LD50 3500 mg/kg (rat)				
Dermal LD50 4500 mg/kg (rabbit)	o irritotion			
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: Causes serious eye irritation.				
Sensitization: No sensitizing effects known.				
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, USHA or ACGIH.				
Reproductive toxicity: No effects known.				
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known.				
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 in	Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.			

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 UN-Number DOT, IMDG, IATA

UN1987

(Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

USA

Product name: trans-2-Hexen-1-ol (Contd. of page 3) UN proper shipping name DOT Alcohols, n.o.s. (trans-2-Hexen-1-ol) ALCOHOLS, N.O.S. (trans-2-Hexen-1-ol) IMDG, IATA Transport hazard class(es) DOT 3 Flammable liquids. Class Label (F1) Flammable liquids Class Labe IMDG, IATA Class 3 Flammable liquids. Label Packing group DOT, IMDG, IATA IIIEnvironmental hazards: Not applicable. Special precautions for user EMS Number: Warning: Flammable liquids F-E,S-D Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN1987, Alcohols, n.o.s. (trans-2-Hexen-1-ol), 3, III 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <u>(!</u>) * GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H319 Causes serious eye irritation. Precautionary statements P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, female 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 listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity of the Second Substance is not listed. 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. National regulations 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. 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 this 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 not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department 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) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances CAS: Chemical Abstract Service (Division of the American Chemical Substances LC50: Lethal concentration, 50 percent US0: Lethal dose, 50 percent VPWB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)