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1 Identification Product identifier Product name: <u>trans, trans-2,4-Hexadien-1-ol</u>
Stock number: A12660 CAS Number: 17102-64-6
EC number: 241-173-4 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)
GHS06 Skull and crossbones
Acute Tox. 3 H311 Toxic in contact with skin.
GHS05 Corrosion
Eye Dam. 1 H318 Causes serious eye damage.
Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin 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
GHS05 GHS06
Signal word Danger Hazard statements H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements 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. P361 Remove/Take off immediately all contaminated clothing. P310 Immediately call a POISON CENTER/doctor. P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse. P321 Specific treatment (see on this label). P322 Specific measures (see on this label). P405 Store locked up. P501 Dispose of contaminate in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects
(\mathbf{P})
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

USA (Contd. on page 2) Product name: trans, trans-2,4-Hexadien-1-ol

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	(Contd. of page 1)
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 17102-64-6 trans, trans-2,4-Hexadien-1-ol Concentration: ≤100% Identification number(s): EC number: 241-173-4 Impurities and stabilizing additives: Stabilized with: alpha-Tocopherol	
 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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye advice. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Harmful if swallowed. Toxic in contact with skin. Causes serious eye damage. 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 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: Dispose of contaminated material as waste according to section 13. 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 Handle under dry protective gas. Keep container tightly colsed containers. Ensure good veriliation 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 air. Store in the dark. Do not store together with acids. Store away from oxidizing agents. Store away from acid anhydrides. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from exposure to light. Store in 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.	

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

(Contd. on page 3)

Exposure controls

Product name: trans, trans-2,4-Hexadien-1-ol

(Contd. of page 2)

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. 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 Check protection of suitable 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. Eye protection: Tightly sealed goggles Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Low melting solid Not determined Odor: Odor threshold: Not determined. Not applicable pH-value: . Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 30-31 °C (86-88 °F) 79-80 °C (174-176 °F) (12mm) Not determined Flash point: Flammability (solid, gaseous) 72 °C (162 °F) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined. Danger of explosion: Explosion limits: Lower: Upper: Product does not present an explosion hazard. Not determined Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Not applicable. 0.87 g/cm³ (7.26 lbs/gal) Not determined. Not applicable. Not applicable. Evaporation rate Solubility in / Miscibility with Water Insoluble Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable Not applicable. Not applicable. No further relevant information available. kinematic: Other information Additional information Discolors when exposed to air. 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: Acids Oxidizing agents Acid anhydrides Air Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Additional information: Avoid loss of stabilizer. 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. Toxic in contact with skin. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Irritating effect. Causes serious eye damage. 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: No effects known. (Contd. on page 4)

Safety	Data	Sheet
acc. to O	SHA HO	CS

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12 Ecological information Toxicity Presidence and the further relevant information available. Breaker and degradability by further relevant information available. Mobility in matching to be released to the environment without proper governmental permits. Constraints Dot of andre relevant information available. Mobility in matching to be released to the environment without proper governmental permits. Constraints Dot of allow the relevant information available. Avoid transfer into the performant. Performant. Press Not participation. Other adverse effects to be universe effects to be universe effects. During and the performant. Press Not participation. Other adverse effects to burther relevant information available. To implementation. 13 Disposal considerations Meditary in a performant. West readeration effects Environmentation. Uncleaned performant method. Dot finding performant. 13 Disposal consideration Disposal must be made according to official regulations. 14 Transport Information UN2611 UN proper shipping name Toxic Solub, organic, n.o.s. (trans, trans 2,4-Hexadien-1-o). DOT Food Class 6	Subacute to chronic toxicity: trans, trans-2,4-Hexadien-1-ol is irritating to the skin and eyes and moderately t Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute Carcinogenic categories	e and chronic toxicity of this substance is not fully known.
Toxicity Aquadit Coxicity: No further relevant information available. Persistence and egradability to further relevant information available. Mobility in a full of the product of large quantities to need ground water, water course or sewage system. Additional ecological information: Born allow unditidely product or large quantities to need ground water, water course or sewage system. Avaid transferred in the writement. Born allow unditidely product or large quantities to need ground water, water course or sewage system. Avaid transferred in the writement. Born allow unditidely product or large quantities to need ground water, water course or sewage system. Avaid transferred in the writement. Born allow unditidely product or large quantities to need ground water, water course or sewage system. Avaid transferred in the writement. Born allow unditidely product or large quantities to need ground water, water course or sewage system. Avaid transferred to consideration. Born allow unditidely count information available. Other adverse effects ho further relevant information available. West the statement methods Recommendation. Recommendation. Universe Do read allow consideration. Difficial regulations. Intersport hazard class(es)		stea.
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: 14 Transport information UN2811 UN-Number DOT, IMDG, IATA UN2811 UN proper shipping name DOT, IMDG, IATA UN2811 Transport hazard class(es) Toxic solids, organic, n.o.s. (trans, trans-2,4-Hexadien-1-ol) TOXIC SOLID, ORGANIC, N.O.S. (trans, trans-2,4-Hexadien-1-ol) Transport hazard class(es) TOXIC SOLID, ORGANIC, N.O.S. (trans, trans-2,4-Hexadien-1-ol) OT Image: Class 6,1 Toxic substances. Class 6,1 Toxic substances. </th <th>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 governn Do not allow material to be released to the environment without proper governn Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.</th> <th>nental permits. course or sewage system.</th>	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 governn Do not allow material to be released to the environment without proper governn Do not allow undiluted product or large quantities to reach ground water, water Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	nental permits. course or sewage system.
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 UN2811 UN proper shipping name DOT, IMDG, IATA UN2811 Transport hazard class(es) Toxic solids, organic, n.o.s. (trans, trans-2,4-Hexadien-1-ol) TOXIC SOLID, ORGANIC, N.O.S. (trans, trans-2,4-Hexadien-1-ol) Transport hazard class(es) Toxic substances. Class 6,1 Toxic substances. Label 6,1 (T2) Toxic substances. Label 6,1 (T2) Toxic substances. Class 6,1 Toxic substances. Label 6,1 Toxic substances. Pooti, IMDG, IATA III Environmental hazards: Not applicable. Special precautions for user Warning: Toxic substances FA	13 Disposal considerations	
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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)		
	Safety, health and environmental regulations/legislation specific for the su GHS label elements The product is classified and labeled in accordance with 2	u bstance or mixture 29 CFR 1910 (OSHA HCS)



 Signal word Danger Hazard statements H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. Precautionary statements 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. P361 Remove/Take off immediately all contaminated clothing.

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Product name: trans, trans-2,4-Hexadien-1-ol

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P310 Immediately call a POISON CENTER/doctor. P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse. P321 Specific treatment (see on this label). P322 Specific measures (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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 Non-Domestic Substances List (NDSL). 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, 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, female Substance is not listed. <td< th=""><th>1. of page 4)</th></td<>	1. of page 4)
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, placir 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.	g on the
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 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 conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	of this ct not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 01/16/2017 / - 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 IATA: International Air 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 Society) HMIS: Workplace Hazardous Materials Information System (ICA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTR: International Agercy for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox. 4: Acute toxicity, Hazard Category 4 Acute Tox. 4: Acute toxicity, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	USA