

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 5-Methyl-2-phenyl-2-hexenal Stock number: A13407 **CAS Number:** 21834-92-4 EC number: 244-602-3 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. Inerrito Fisher Scheman C. 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. 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 H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements 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 person to fresh air and keep comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 TIVITY 1 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: 21834-92-4 5-Methyl-2-phenyl-2-hexenal Identification number(s): EC number: 244-602-3 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. (Contd. on page 2)

Product name: 5-Methyl-2-phenyl-2-hexenal

r reduct name: 5-metryr 2-priertyr 2-		
After swallowing Seek medical treatme Information for doctor Most important symptoms and effects	r several minutes under running water. Then consult a doctor. ent. s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the for Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture lowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Absorb with liquid-binding material (sand Ensure adequate ventilation. Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person. See Section 13 for disposal information.	ow material to be released to the environment without proper governmental permits. t and cleaning up: d, diatomite, acid binders, universal binders, sawdust). special measures required. Indling al protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions: ed containers.	
Control parameters Components with limit values that red Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the en Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands: Impervious gloves Check protective gloves prior to each us	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. guire monitoring at the workplace: Not required. sures andling chemicals should be followed. and feed. thing immediately. hd of work. vorking environment. pirator when high concentrations are present. e for their proper condition.	
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form:		
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 100-102 °C (212-216 °F) (1 mmHg) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature:	110 °C (230 °F) Not determined. Not determined	(0

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Product name: 5-Methyl-2-phenyl-2-l	hexenal	
		(Contd. of page 2)
Decomposition temperature: Auto igniting:	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:	Product does not present an explosion hazard. Not determined Not determined 0.978 g/cm ³ (8.161 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not miscible or difficult to mix	
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: (t information available. nts	
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	kin 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 furthe Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	her relevant information available. elevant information available. mation available. he environment without proper governmental permits. t	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be me	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportati	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
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DOT	
Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulations//e GHS label elements The product is classified and Hazard pictograms	egislation specific for the substance or mixture d labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P304+P340IF INHALED: Remove person tP405Store locked up.P501Dispose of contents/container iNational regulationsAll components of this product are listed in the U.S.All components of this product are listed on the CaSARA Section 313 (specific toxic chemical listiCalifornia Proposition 65Prop 65 - Chemicals known to cause cancer SLProp 65 - Developmental toxicity, female SubstanceProp 65 - Developmental toxicity, male SubstanceInformation about limitation of use: For use onliOther regulations, limitations and prohibitive regulations	ive clothing/eye protection/face protection. with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. to fresh air and keep comfortable for breathing. in accordance with local/regional/national/international regulations. S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. anadian Domestic Substances List (DSL). ings) Substance is not listed. ubstance is not listed. to itsted. rec is not listed. rec is not listed. to compare the second substance is not listed. y by technically qualified individuals. equilations equilations rding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the second second
information to ensure proper use and protect the h	upplement to other information gathered by them, and should make independent judgement of suitability of this nealth and safety of employees. This information is furnished without warranty, and any use of the product not ir , or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depa Date of preparation / last revision 11/24/2015 / - Abbreviational Martime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Su CAS: Chemical Abstracts Service (division of the American Chemic HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Can LCSO: Lethal dose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienis OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	artment Ibstances cal Society) nada)