

## Safety Data Sheet per OSHA HazCom 2012



4 First-aid measures

#### Product name: cis-3-Hexenyl acetate

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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 bazards arising from the substance or mixture	
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: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Environmental precautions is a supervised of the second second second second second second second second second Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. <b>Prevention of secondary hazards:</b> 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	
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:	
Keen container tidativ sealed	
Store in cool, dry conditions in well sealed containers. <b>Specific end use(s)</b> 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	
Exposure controls Personal protective equipment	
<b>General protective and hygienic measures</b> 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. <b>Breathing equipment:</b> Use suitable respirator when high concentrations are present.	
Protection of hands: 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. <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance:	
Form: Liquid Odor: Not determined Odor threshold: Not determined.	
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#### Product name: cis-3-Hexenyl acetate

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pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 75-76 °C (167-169 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	57 °C (135 °F) Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
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:	Not determined Not determined 0.897 g/cm <sup>3</sup> (7.485 lbs/gal) Not determined. Not determined. Not determined. Not determined.	
dynamic: kinematic: Other information	Not determined. 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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for o	classification:	
Oral LD50 >5 gm/kg (rat) Dermal LD50 >5 gm/kg (rabbit)		
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	rious eye irritation. own. own carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. /n. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> May cause respiratory irritation.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes:	her relevant information available. elevant information available. mation available.	
Do not allow material to be released to to Do not allow undiluted product or large of Avoid transfer into the environment. <b>Results of PBT and vPvB assessmen</b> <b>PBT</b> : Not applicable. <b>vPvB</b> : Not applicable. <b>Other adverse effects</b> No further relevant		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information		
UN-Number	1010070	
DOT, IMDG, IATA UN proper shipping name	UN3272	
DOT IMDG, IATA	Esters, n.o.s. (cis-3-Hexenyl acetate) ESTERS, N.O.S. (cis-3-Hexenyl acetate)	
		(Contd. on page 4)

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Product name: cis-3-Hexenyl acetate (Contd. of page 3) Transport hazard class(es) DOT Class 3 Flammable liquids. Label Class (F1) Flammable liquids Label IMDG, IATA Class 3 Flammable liquids. Label Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Warning: Flammable liquids Special precautions for user 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": UN3272, Esters, n.o.s. (cis-3-Hexenyl acetate), 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 GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. **Precautionary statements** P210 Keep away from h P261 Avoid breathing du Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 P501 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, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, compared 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 europeen 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 Abstractors Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Caterial dose, 50 percent CAGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)