

SAFETY DATA SHEET

cis-3-Hexenol, Natural

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification		
Product identifier		
Product name	cis-3-Hexenol, Natural	
Product number	W01723N	
Synonyms; trade names	(Z)-Hex-3-enol cis-3 Hexenol Leaf alcohol 3-HEXENOL cis-3-Hexenol Hex-3(cis)-en-1-ol 3-Hexen-1-ol, (3Z)- cis-3-Hexen-1-ol Hex-3-en-1-ol, (Z)- cis-Hex-3-en-1-ol, 3-Hexen-1-ol, (Z)-	
CAS number	928-96-1	
Recommended use of the chemic	al and restrictions on use	
Application	Laboratory chemicals, Manufacture of substances.	
Uses advised against	No specific uses advised against are identified.	
Details of the supplier of the safet	y data sheet	
Supplier	Synerzine 5340 Highway 42 Ellenwood, GA 30294 (404) 524-6744 info@synerzine.com	
Contact Person	James Elliott	
Emergency telephone number		
Emergency telephone	INFOTRAC 1-800-535-5053 (Reference Contract # 102471)	
2. Hazard(s) identification		
Classification of the substance or mixture		
Physical hazards	Flam. Liq. 3 - H226	
Health hazards	Eye Irrit. 2A - H319	
Environmental hazards	Not Classified	
Label elements		
Hazard symbols		

Signal word

Warning

Hazard statements

H226 Flammable liquid and vapor. H319 Causes serious eye irritation.

Precautionary statements	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
recould hary statements	P233 Keep container tightly closed.
	P240 Ground/ bond container and receiving equipment.
	P241 Use explosion-proof electrical equipment.
	P242 Use only non-sparking tools.
	P243 Take precautionary measures against static discharge.
	P264 Wash contaminated skin thoroughly after handling.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	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.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool.
	P501 Dispose of contents/ container in accordance with national regulations.
Other hazards	
This substance is not classified	d as PBT or vPvB according to current EU criteria.
3. Composition/information on	ingredients
Substances	

Product name	cis-3-Hexenol, Natural
CAS number	928-96-1
Chemical formula	С6Н12О
Composition comments	Named component present at ≤100%.

4. First-aid measures

Description of first aid measures		
General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.	
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.	
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.	
Skin Contact	Rinse with water.	
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.	
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.	
Most important symptoms and effects, both acute and delayed		
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.	
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.	

Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	Irritating to eyes.	
Indication of immediate medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.	
5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Special hazards arising from the s	substance or mixture	
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.	
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.	
Advice for firefighters		
Protective actions during firefighting	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.	
6. Accidental release measures		
Personal precautions, protective e	equipment and emergency procedures	
Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.	
Environmental precautions		
Environmental precautions	Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).	
Methods and material for containr	nent and cleaning up	
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows.	

Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labeled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.	
7. Handling and storage		
Precautions for safe handling		
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In use may form flammable/explosive vapour-air mixture. Vapors may accumulate on the floor and in low-lying areas. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.	
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.	
Conditions for safe storage, including any incompatibilities		
Storage precautions	Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate sparks from static electricity. Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.	
Storage class	Flammable liquid storage.	
Specific end uses(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.	
8. Exposure controls/Personal pr	otection	

Ingredient comments

No exposure limits known for ingredient(s).

Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilating equipment.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Oxidizing properties

cis-3-Hexenol, Natural

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
Environmental exposure controls	Keep container tightly sealed when not in use.

9. Physical and chemical properties Information on basic physical and chemical properties Appearance Clear liquid. Color Colorless to Yellow Odor Characteristic. Odor threshold Not available. pН Not available. Melting point Not available. Initial boiling point and range 156°C/313°F 44°C/111°F Method: Closed cup. Flash point Evaporation rate Not available. Upper/lower flammability or Not available. explosive limits Vapor pressure Not available. Vapor density Not available. Relative density Not available. Not available. Solubility(ies) Partition coefficient Not available. Not available. Auto-ignition temperature **Decomposition Temperature** Not available. Viscosity Not available. Explosive properties Not available.

Not available.

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Summary

Summary

Aspiration hazard Summary

cis-3-Hexenol, Natural

Molecular weight	100.2 g/mol
10. Stability and reactivity	
Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidizing agents.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Do not pressurize, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.
Materials to avoid	Oxidizing materials. Acids - oxidizing.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.
11. Toxicological information	
Information on toxicological effects	
Acute toxicity - oral Summary	Based on available data the classification criteria are not met.
Acute toxicity - dermal Summary	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation Summary	Causes serious eye irritation.
Respiratory sensitization Summary	Based on available data the classification criteria are not met.
Skin sensitization Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity Summary	Based on available data the classification criteria are not met.
Carcinogenicity Summary	Based on available data the classification criteria are not met.
Reproductive toxicity Summary	Based on available data the classification criteria are not met.

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	14. Transport information	
UN No. (TDG) 1987	UN Number	
	UN No. (TDG)	1987

UN No. (IMDG)	1987
UN No. (ICAO)	1987
UN No. (DOT)	UN1987
UN proper shipping name	
Proper shipping name (TDG)	ALCOHOLS, N.O.S. (cis-3-Hexenol, Natural)
Proper shipping name (IMDG)	ALCOHOLS, N.O.S. (cis-3-Hexenol, Natural)
Proper shipping name (ICAO)	ALCOHOLS, N.O.S. (cis-3-Hexenol, Natural)
Proper shipping name (DOT)	ALCOHOLS, N.O.S.
Transport hazard class(es)	
Transport hazard class(es) DOT hazard class	3
,	3 3
DOT hazard class	
DOT hazard class	3
DOT hazard class DOT hazard label TDG class	3 3
DOT hazard class DOT hazard label TDG class TDG label(s)	3 3 3



DOT transport labels



Packing group		
TDG Packing Group	III	
IMDG packing group	<i>III</i>	
ICAO packing group	<i>III</i>	
DOT packing group	<i>III</i>	
Environmental hazards		
Environmentally Hazardous Substance No.		
Special precautions for user		
EmS	F-E, S-D	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	

Regulatory References

OSHA Hazard Communication Standard 29 CFR §1910.1200

US State Regulations

Pennsylvania "Right To Know" List *Present.*

Inventories

Canada - DSL/NDSL *DSL*

US - TSCA Present.

16. Other information

Abbreviations and acronyms used	TDG: The transport of dangerous goods act
in the safety data sheet	

	IATA: International air transport association.
	ICAO: Technical instructions for the safe transport of dangerous goods by air.
	IMDG: International maritime dangerous goods.
	CAS: Chemical abstracts service.
	ATE: Acute toxicity estimate.
	LC_{50} : Lethal concentration to 50 % of a test population.
	LD₅o: Lethal dose to 50% of a test population (median lethal dose). EC₅o: 50% of maximal effective concentration.
	PBT: Persistent, bioaccumulative and toxic substance.
	vPvB: Very persistent and very bioaccumulative.
	VPVD. Vely persistent and very bloaccumulative.
Classification abbreviations and	Flam. Liq. = Flammable liquid
acronyms	Eye Irrit. = Eye irritation
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	7/14/2023
Revision	2
Supersedes date	3/21/2019
SDS No.	1203
Hazard statements in full	H226 Flammable liquid and vapor.
	H319 Causes serious eye irritation.
NFPA - health hazard	Irritation, minor residual injury. (1)
NFPA - flammability hazard	Burns only if heated moderately. (2)
NFPA - instability hazard	Normally stable. (0)
End of Safety Data Sheet	