

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: Hexenol Cis 3
CAS No	: 928-96-1
Product code	: H1100
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.3. Details of the supplier of the second s	kusa.com
1.4. Emergency telephone number	
Emergency number	: CHEMTEL:(800)255-3924
Classification (GHS-US) Flam. Liq. 3 H226 Acute Tox. 4 (Oral) H302 Acute Tox. 3 (Dermal) H311 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	
Signal word (CHS LIS)	GHS02 GHS06 GHS07
Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>Danger</li> <li>H226 - Flammable liquid and vapor H302 - Harmful if swallowed</li> <li>H311 - Toxic in contact with skin H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking</li> <li>P233 - Keep container tightly closed</li> </ul>

- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical, lighting, ventilating equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P280 Wear eye protection, face protection, protective clothing, protective gloves
- P301+P312 If swallowed: Call a doctor, a POISON CENTER if you feel unwell
- P302+P352 If on skin: Wash with plenty of water

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

- P312 Call a doctor, a POISON CENTER if you feel unwell
- P321 Specific treatment (see see supplemental label on this label)
- P330 Rinse mouth

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	P333 P36 P362 P363 P363 P370 P403 P403 P50	<ul> <li>24-P313 - If skin inflation occurs, Get med</li> <li>7+P313 - If eye irritation persists: Get med</li> <li>1 - Take off immediately all contaminated</li> <li>2 - Take off contaminated clothing and was</li> <li>3 - Wash contaminated clothing before re</li> <li>0+P378 - In case of fire: Use carbon dioxi</li> <li>3+P235 - Store in a well-ventilated place.</li> <li>5 - Store locked up</li> <li>1 - Dispose of contents/container to a lice</li> <li>ction site except for empty clean container</li> </ul>	dical advice/atte clothing ash it before reu use de (CO2), foam Keep cool nsed hazardous	ention se to extinguish s-waste disposal contractor or
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS-U	S)			
Not applicable				
SECTION 3: Composition/inform	ation on ir	ngredients		
3.1. Substance				
Name		Product identifier	%	Classification (GHS-US)
cis-3-hexenol (Main constituent)		(CAS No) 928-96-1	100	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	S			
First-aid measures general	advie	er give anything by mouth to an unconsci ce (show the label where possible).		ou feel unwell, seek medical
First-aid measures after inhalation		ire fresh air breathing. Allow the victim to		
First-aid measures after skin contact	lmm Spec	ove/Take off immediately all contaminate ediately call a poison center or doctor/phy cific measures (see on this label). Was tion occurs: Get medical advice/attention.	/sician. Wash w h contaminated	ith plenty of soap and water. clothing before reuse. If skin
First-aid measures after eye contact		e cautiously with water for several minute Continue rinsing. If eye irritation persists:		
First-aid measures after ingestion		e mouth. Do NOT induce vomiting. Obtai TER or doctor/physician if you feel unwe		edical attention. Call a POISON
4.2. Most important symptoms and	effects, both	acute and delayed		
Symptoms/injuries after skin contact		eated exposure to this material can result th hazard. Toxic in contact with skin. Cau		
Symptoms/injuries after eye contact		ses serious eye irritation.		
Symptoms/injuries after ingestion	: Swa	llowing a small quantity of this material w	ill result in serio	us health hazard.
4.3. Indication of any immediate me No additional information available	dical attentio	on and special treatment needed		
SECTION 5: Firefighting measure	es			
5.1. Extinguishing media	-		0 I	
Suitable extinguishing media		n. Dry powder. Carbon dioxide. Water sp	ray. Sand.	
Insuitable extinguishing media		ot use a heavy water stream.		
5.2. Special hazards arising from th				
Fire hazard		mable liquid and vapor.		
Explosion hazard	: May	form flammable/explosive vapor-air mixtu	ure.	
5.3. Advice for firefighters				
Firefighting instructions		water spray or fog for cooling exposed con nical fire. Avoid (reject) fire-fighting water		
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P332+P313 - If skin irritation occurs: Get medical advice/attention

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Protection during firefighting		: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECT	ION 6: Accidental release n	neasures		
6.1.	Personal precautions, protectiv	e equipment and emergency procedures		
Genera	al measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.		
6.1.1.	For non-emergency personnel			
Emerge	ency procedures	: Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
Protect	ive equipment	: Equip cleanup crew with proper protection.		
Emerge	ency procedures	: Ventilate area.		
6.2.	Environmental precautions			
Preven	t entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters.		
6.3.	Methods and material for containment and cleaning up			

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
	spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage, includin	ig any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Hexenol Cis 3 (928-96-1)			
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear approved mask.
Other information	: When using, do not eat, drink or smoke.

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<b>SECTION 9: Physical and chemica</b>	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 157 °C
Flash point	: 57 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
No additional information available	

No additional information available

SECTION	10: Stability and reactivity		
10.1. Re	activity		
No additiona	l information available		
10.2. Ch	emical stability		
Flammable li	quid and vapor. May form flammable/explosive vapor-air mixture.		
10.3. Po	ssibility of hazardous reactions		
Not established.			
10.4. Co	inditions to avoid		
Direct sunlig	ht. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.		
10.5. Inc	compatible materials		
strong acids. Strong bases.			
10.6. Ha	zardous decomposition products		
fume. Carbon monoxide. Carbon dioxide. May release flammable gases.			
SECTION	11: Toxicological information		

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.

Hexenol Cis 3 (928-96-1)		
LD50 oral rat	4700 mg/kg	
LD50 dermal rat	600 mg/kg	
ATE US (oral)	500.000 mg/kg body weight	
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Hexenol Cis 3 (928-96-1)	
ATE US (dermal)	600.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed. Toxic in contact with skin.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Hexenol Cis 3 (928-96-1)	
Persistence and degradability	Not established.
I2.3. Bioaccumulative potential	
Hexenol Cis 3 (928-96-1)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity. Avoid release to the environment.
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SECTION 14: Transport information	
Department of Transportation (DOT)	

Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1987 Alcohols, n.o.s., 3, III
UN-No.(DOT)	: UN1987
Proper Shipping Name (DOT)	: Alcohols, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <li>172 - This entry includes alcohol mixtures containing up to 5% petroleum products. B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	: UN 1987 ALCOHOLS, N.O.S., 3, III, (D/E)
Packing group (ADR)	: 111
Class (ADR)	: 3 - Flammable liquid
lazard identification number (Kemler No.)	: 30
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
Orange plates	30 1987
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 5
Excepted quantities (ADR)	: E1
Transport by sea	
UN-No. (IMDG)	: 1987
Class (IMDG)	: 3 - Flammable liquids

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MFAG-No	: 127	
Air transport		
UN-No. (IATA)	: 1987	
Class (IATA)	: 3 - Flammable Liquids	
Civil Aeronautics Law	: Flammable liquids	

### 15.1. US Federal regulations

### Hexenol Cis 3 (928-96-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

CANADA

No additional information available

**EU-Regulations** No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226 Eye Irrit. 2 H319 Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36 Full text of R-phrases: see section 16

National regulations No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Other information

: None.

#### Full text of H-phrases:

ICA	text of r1 pindses.				
	Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3			
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4			
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A			
	Flam. Liq. 3	Flammable liquids Category 3			
	Skin Irrit. 2	Skin corrosion/irritation Category 2			
	H226	Flammable liquid and vapor			
	H302	Harmful if swallowed			
	H311	Toxic in contact with skin			
	H315	Causes skin irritation			
	H319	Causes serious eye irritation			

### SDS US (GHS HazCom 2012)

Disclaimer:

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