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## SAFETY DATA SHEETS

According to the UN GHS revision 8

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### SECTION 1: Identification

#### 1.1 GHS Product identifier

Product name 1,6-Octadien-3-ol, 3,7-dimethyl-, acid-isomerized

#### 1.2 Other means of identification

Product number -  
 Other names BURNT LIME;CAUSTIC;LIME,CAUSTIC

#### 1.3 Recommended use of the chemical and restrictions on use

Identified uses Industrial and scientific research uses.  
 Uses advised against no data available

#### 1.4 Supplier's details

Company Echemi.com  
 Address Echemi.com  
 Telephone Echemi.com

#### 1.5 Emergency phone number

Emergency phone number Echemi.com  
 Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

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### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

Flammable liquids, Category 3  
 Aspiration hazard, Category 1  
 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 2

#### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Hazard statement(s)

Danger  
 H226 Flammable liquid and vapour  
 H304 May be fatal if swallowed and enters airways  
 H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...  
 P273 Avoid release to the environment.

Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [o...  
 P370+P378 In case of fire: Use ... to extinguish.  
 P301+P316 IF SWALLOWED: Get emergency medical help immediately.

Storage

P331 Do NOT induce vomiting.  
 P391 Collect spillage.  
 P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

P405 Store locked up.  
 P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and r... and product characteristics at time of disposal.

#### 2.3 Other hazards which do not result in classification

no data available

### SECTION 3: Composition/information on ingredients

Help

**3.1 Substances**

Chemical name	Common names and synonyms	CAS number	EC number	Conce
1,6-Octadien-3-ol, 3,7-dimethyl-, acid-isomerized	1,6-Octadien-3-ol, 3,7-dimethyl-, acid-isomerized	73018-51-6	277-225-8	U

**SECTION 4: First-aid measures****4.1 Description of necessary first-aid measures****If inhaled**

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim has inhaled the chemical.

**Following skin contact**

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

**Following eye contact**

Rinse with pure water for at least 15 minutes. Consult a doctor.

**Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

**4.2 Most important symptoms/effects, acute and delayed**

no data available

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

no data available

**SECTION 5: Fire-fighting measures****5.1 Suitable extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

**5.2 Specific hazards arising from the chemical**

no data available

**5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

**7.2 Conditions for safe storage, including any incompatibilities**

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure limit values**

no data available

**Biological limit values**

no data available

**8.2 Appropriate engineering controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

**8.3 Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

**Skin protection**

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the sp of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

**Thermal hazards**

no data available

**SECTION 9: Physical and chemical properties and safety characteristics**

<b>Physical state</b>	Liquid. Liquid.
<b>Colour</b>	Colorless to pale yellow.
<b>Odour</b>	no data available
<b>Melting point/freezing point</b>	< -20 Å°C.
<b>Boiling point or initial boiling point and boiling range</b>	179 Å°C. Atm. press.:101.6 kPa.
<b>Flammability</b>	no data available
<b>Lower and upper explosion limit/flammability limit</b>	no data available
<b>Flash point</b>	44 Å°C. Atm. press.:101.3 kPa.
<b>Auto-ignition temperature</b>	225 Å°C. Atm. press.:101.3 kPa.
<b>Decomposition temperature</b>	no data available
<b>pH</b>	no data available
<b>Kinematic viscosity</b>	no data available
<b>Solubility</b>	In water: Ca. 0.078 g/L. Temperature:20 Å°C. pH:7.;Ca. 0.54 g/L. Temperature:20 Å°C. pH:7.;Ca. 2.42 mg/L. Temperature:20 Å°C. pH:7.
<b>Partition coefficient n-octanol/water</b>	log Pow = 3.3 - 4.9. Temperature:35 Å°C.
<b>Vapour pressure</b>	481 Pa. Temperature:25 Å°C.;368 Pa. Temperature:20 Å°C.
<b>Density and/or relative density</b>	Ca. 0.852. Temperature:20 Å°C.;Ca. 852 kg/mÅ³. Temperature:20 Å°C.
<b>Relative vapour density</b>	no data available
<b>Particle characteristics</b>	no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### Acute toxicity

Oral: no data available  
Inhalation: no data available  
Dermal: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### STOT-single exposure

no data available

### STOT-repeated exposure

no data available

### Aspiration hazard

no data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish: LL50 - Cyprinus carpio - 6.8 mg/L - 96 h.  
Toxicity to daphnia and other aquatic invertebrates: EL50 - Daphnia magna - 5.3 mg/L - 48 h.  
Toxicity to algae: EL50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - 15 mg/L - 72 h.  
Toxicity to microorganisms: NOEC - 10 mg/L - 28 d.

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Other adverse effects



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no data available

**SECTION 13: Disposal considerations****13.1 Disposal methods****Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

**SECTION 14: Transport information****14.1 UN Number**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

**14.2 UN Proper Shipping Name**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

**14.3 Transport hazard class(es)**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

**14.4 Packing group, if applicable**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

**14.5 Environmental hazards**

ADR/RID: Yes

IMDG: Yes

IATA: Yes

**14.6 Special precautions for user**

no data available

**14.7 Transport in bulk according to IMO instruments**

no data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question**

Chemical name	Common names and synonyms	CAS number
1,6-Octadien-3-ol, 3,7-dimethyl-, acid-isomerized	1,6-Octadien-3-ol, 3,7-dimethyl-, acid-isomerized	73018-51-6
European Inventory of Existing Commercial Chemical Substances (EINECS)		
EC Inventory		
United States Toxic Substances Control Act (TSCA) Inventory		
China Catalog of Hazardous chemicals 2015		
New Zealand Inventory of Chemicals (NZIoC)		
Philippines Inventory of Chemicals and Chemical Substances (PICCS)		
Vietnam National Chemical Inventory		
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)		
Korea Existing Chemicals List (KECL)		

**SECTION 16: Other information****Information on revision****Creation Date**

July 15, 2019

**Revision Date**

July 15, 2019

**Abbreviations and acronyms**

CAS: Chemical Abstracts Service  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 RID: Regulation concerning the International Carriage of Dangerous Goods by Rail  
 IMDG: International Maritime Dangerous Goods  
 IATA: International Air Transportation Association  
 TWA: Time Weighted Average  
 STEL: Short term exposure limit  
 LC50: Lethal Concentration 50%  
 LD50: Lethal Dose 50%  
 EC50: Effective Concentration 50%

**References**

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>  
 HSDDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>  
 IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>  
 eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)  
 CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>  
 ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>  
 ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>  
 Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>  
 ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

**Any questions regarding this SDS, Please send your inquiry to [sds@xixisys.com](mailto:sds@xixisys.com)**

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