

## Isododecane

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

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### 1 PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Isododecane  
**Synonyms:** Not available  
**INCI Name:** Isododecane  
**CAS Number:** 31807-55-3  
**Formula:** C<sub>12</sub>H<sub>26</sub>  
**Product Form:** Liquid  
**Product Use:** Cosmetic use



**Distributor:** MakingCosmetics.com Inc.  
**Address:** 10800 231<sup>st</sup> Way NE  
Redmond, WA 98053 (USA)  
**Phone / Fax:** 425-292-9502 / 425-292-9601  
**Web:** [www.makingcosmetics.com](http://www.makingcosmetics.com)

**Emergency Telephone Number: 1-800-424-9300 (Chemtrec)**

### 2 HAZARDS IDENTIFICATION

**GHS Classification:** Flammable liquid, Category 3  
Aspiration hazard, Category 1

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:**  

**GHS Hazard Statements:**  
H226: Flammable liquid and vapor  
H304: May be fatal if swallowed and enters airways.

**GHS Precautionary Statements:**  
P280: Wear protective gloves and eye/face protection.  
P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
P241: Use explosion-proof electrical, ventilating, lighting, and all material-handling equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P233: Keep container tightly closed.  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P403: Store in well-ventilated place.  
P405: Store locked up.

**Potential Health Hazards:**  
Eyes: May cause mild eye irritation.  
Inhalation: May cause mild respiratory irritation.  
Skin: Defatting to the skin. May cause skin dryness and irritation.  
Ingestion: May be fatal if swallowed and enters airways.

**NFPA Ratings (704):**

Health	2	Minimal
Flammability	2	Moderate
Reactivity	0	Minimal
Specific Hazard	N/A	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Isododecane	31807-55-3	100%	Not available

### 4 FIRST AID MEASURES

**Eyes:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband. If not breathing, if breathing is irregular, or respiratory arrest occurs: provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.

**Skin:** Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Et medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.

**Ingestion:** Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do Not Induce Vomiting! 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

## 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry chemical) for adjacent fire. Do not use water.

**Special protective equipment & precautions for firefighters:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance.

**Flash Points:** 45°C/113°F (Closed cup) [DIN 51755]

**Specific hazards arising from the chemical:** Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Decomposition products may include the following materials: carbon dioxide, carbon monoxide. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking, or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. See section 8 for recommendations on the use of personal protective equipment.

**Environmental precautions:** Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks.

**Methods and material for containment and cleaning up:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material, e.g. sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.  
Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements, or confined areas.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, keep tightly closed when not in use. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking, and smoking. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use. Eating, drinking, and smoking should be prohibited in areas where the material is handled, stored, and processed.

**Conditions for safe** Store in accordance with local regulations. Store in a segregated and approved area. Store in original

**storage, incl. any incompatibilities:**

container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see section 10 for incompatibilities) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Isododecane	N/A		

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

**Personal Protection:**

- Eyes:** Chemical splash goggles or face shield should be worn.
- Inhalation:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. When high levels of vapors or aerosols are not controlled by local ventilation, respiratory protection is recommended. NIOSH approved, air-purifying organic vapor respirator.
- Body:** Rubber gloves or nitrile gloves should be worn. Wear cloth work clothing including long pants and long-sleeved shirts.
- Other:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless (light) liquid	<b>Vapor Pressure:</b>	1 hPa (20°C)
<b>Odor:</b>	Odorless	<b>Vapor Density:</b>	5.9 (Air = 1)
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	Colorless (light)	<b>Flammability:</b>	No data available
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	Upper: 4% / Lower: 0.5%
<b>pH:</b>	No data available	<b>Flash Point:</b>	45°C / 113°F [DIN 51755]
<b>Boiling Point:</b>	176-192°C (1013hPa)	<b>Specific Gravity:</b>	No data available
<b>Melting Point:</b>	-81°C (-113.8°F)	<b>Solubility in Water:</b>	<0.0001 g/L
<b>Density @ 20°C / 68°F:</b>	0.74 g/cm <sup>3</sup>	<b>Auto-Ignition Temperature:</b>	410°C (770°F)
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	Kinematic: 0.052 cm <sup>2</sup> /s	<b>Explosive Properties:</b>	No data available
<b>Oxidizing Properties:</b>	No data available	<b>Freezing Point:</b>	No data available

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	The product is stable.
<b>Hazardous Polymerization:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to Avoid:</b>	Strong oxidizing agents.
<b>Incompatible Materials:</b>	Reactive or incompatible with oxidizing materials.
<b>Hazardous Decomposition Products:</b>	Under normal conditions of storage and use, hazardous decompositions products should not be produced.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available
<b>Skin:</b>	Defatting to the skin. May cause skin dryness and irritation.
<b>Eyes:</b>	No known significant effects or critical hazards

<b>Respiratory:</b>	No known significant effects or critical hazards.
<b>Ingestion:</b>	May be fatal if swallowed and enters airways.
<b>Carcinogenicity:</b>	Not classified by IARC, NTP, or OSHA.
<b>Teratogenicity:</b>	No known significant effects or critical hazards.
<b>Germ Cell Mutagenicity:</b>	No known significant effects or critical hazards.
<b>Embryotoxicity:</b>	No data available
<b>Specific Target Organ Toxicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No known significant effects or critical hazards.
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	No data available
<b>Sensitization:</b>	No data available
<b>Irritation:</b>	No data available
<b>Repeated Dose Toxicity:</b>	Prolonged or repeated contact can de-fat the skin and lead to irritation, cracking, and/or dermatitis.

## 12 ECOLOGICAL INFORMATION



<b>Ecotoxicity</b>	
<b>Aquatic Vertebrate:</b>	No data available
<b>Aquatic Invertebrate:</b>	No data available
<b>Terrestrial:</b>	No data available
<b>Persistence and Degradability:</b>	No data available
<b>Bioaccumulative Potential:</b>	Log Pow: 6.96. Potential: high
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available
<b>Other Adverse Effects:</b>	No known significant effects or critical hazards.

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
<b>Product Containers:</b>	Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld, or grind used containers unless they have been cleaned thoroughly internally.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	UN Number: 2286 Proper Shipping Name: Pentamethylheptane Classes: 3 PG*: III 
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	No data available
<b>IMDG (International Maritime Dangerous Goods):</b>	UN Number: 2286 Proper Shipping Name: Pentamethylheptane Classes: 3 PG*: III 
<b>IATA (International Air Transport Association):</b>	Label: Additional information: Emergency schedules (EmS) F-E, S-D UN Number: 2286 Proper Shipping Name: Pentamethylheptane

Classes: 3  
PG\*: III



Label:

Additional information: Passenger aircraft 355: 60L. Cargo aircraft 366: 220L.  
No data available

ICAO (International Civil Aviation Organization):

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.
<b>DSCL (EEC):</b>	No data available
<b>WHMIS (Canada):</b>	No data available
<b>EU EINECS/ELINCS/NLP:</b>	No data available
<b>China IECSC:</b>	No data available
<b>China IECIC (06.30.2014):</b>	No data available
<b>Australia AICS:</b>	No data available
<b>SARA 311/312:</b>	Fire hazard Immediate (acute) health hazard
<b>SARA Title III Section 302 Extremely Hazardous Substances:</b>	None
<b>SARA Title III Section 313 Toxic Chemicals:</b>	None
<b>US EPA CERCLA Hazardous Substances (40 CFR 302):</b>	None
<b>Massachusetts Substances:</b>	Isododecane: MA-S Isododecane: MA - Extra H
<b>Extraordinary Hazardous Substances:</b>	
<b>New Jersey Hazardous Substances:</b>	NJ - HS
<b>Pennsylvania RTK Hazardous Substances:</b>	PA - RTK HS
<b>Pennsylvania Special Hazardous Substances:</b>	PA - Special HS
<b>California Prop. 65:</b>	This product does not contain any of the listed chemicals, which the State of California has found to cause cancer, birth defects, or other reproductive harm.

## 16 OTHER INFORMATION

<b>Revision Date:</b>	08/19/2020
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.