

**SAFTY DATA SHEET**  
**According to Regulation (EC) No 1907/2006 (REACH)**

Revision Date: June 1, 2015

Version No.: 1

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**SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**



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|------------|---|---|
| <b>1.1</b> | <b>Product Identifier</b><br>Product Name   | <b>ISODODECANE</b>  |
| <b>1.2</b> | <b>Relevant Identified Uses of the Substance or Mixture and Uses Advised Against</b><br>Identified uses | Cosmetic raw material   |
| <b>1.3</b> | <b>Details of the Supplier of the Safety Data Sheet</b><br>Company                                      | TKB Trading LLC.<br>1101 9th Avenue<br>Oakland, CA 94606<br><br>+1 510 922 9027 |
| <b>1.4</b> | <b>Emergency telephone number</b>   |   |

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**SECTION 2 – HAZARDS INGREDIENTS**

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|------------|--|--|
| <b>2.1</b> | <b>Classification of the Substance or Mixture</b> according to Regulation (EC) 1272/2008 | Flammable Liquid – Category 3<br>Aspiration Hazard – Category 1  |
| <b>2.2</b> | <b>Label Elements</b> according to Regulation (EC) EU 1272/2008<br>Hazard pictogram      | GHS02                      GHS08<br><br>   |
|            | Signal words   | Danger   |
|            | Hazard statements  | H226: Flammable liquid and vapour<br>H304: May be fatal if swallowed and enters airways  |
|            | Precautionary statements   | P280: Wear protective gloves and eye/face protection. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.<br>P241: Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.<br>P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P403: Store in a well ventilated place<br>P405: Store locked up |

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**2.3 Other Hazards** None known

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

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**3.1 Substances**

Chemical characterization	Cosmetic ingredients
INCI	Isododecane
CAS	13475-82-6, 141-70-5
EC	297-629-8
Concentration	100%

**3.2 Mixture** -

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**SECTION 4 – FIRST AID MEASURES**

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**4.1 Description of First Aid Measures**

Eye contact	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 contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get 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 a collar, tie, belt or waistband.

**4.2 Potential Acute Health Effects**

Eye contact	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.

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<b>4.3</b>	<b>Potential Chronic Health Effects</b>	Prolonged or repeated contact can defeat the skin and lead to irritation, cracking and/or dermatitis.
<b>4.4</b>	<b>Notes to Physician</b>	Treat symptomatically. No specific treatment.
<b>4.5</b>	<b>Protection of First-aiders</b>	No special measures required.

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**SECTION 5 – FIRE FIGHTING MEASURES**

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<b>5.1</b>	<b>Extinguishing Media</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>5.2</b>	<b>Unsuitable Extinguishing Media</b>	Water jet
<b>5.3</b>	<b>Flammable Hazards arising from the Chemical</b>	Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a 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.
<b>5.4</b>	<b>Hazardous Thermal Decomposition Products</b>	Decomposition products may include the following materials: carbon dioxide, carbon monoxide.
<b>5.5</b>	<b>Special Protective Actions for Fire-Fighters</b>	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.
<b>5.6</b>	<b>Special Protective Equipment for Fire-Fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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<b>6.1</b>	<b>Personal precautions, Protective Equipment and Emergency Procedures</b>	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
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- hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 6.2 Environmental Precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- 6.3 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 (see Section 13). 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.
- 6.4 Reference to other Sections** Section 8: Exposure control /personal protection.  
Section 13: Waste treatment.

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**SECTION 7 – HANDLING AND STORAGE**

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- 7.1 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, kept 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 product 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. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- 7.2 Condition for Safe Storage, including any**

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**Incompatibilities**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) 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.

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**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**8.1 Engineering Controls**

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.

**8.2 Personal Protective Equipment**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and 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. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

When high levels of vapors or aerosols are not controlled by local ventilation, respiratory protection is recommended. NIOSH approved, air-purifying organic vapor respirator. Rubber gloves. Nitrile gloves. Wear cloth work clothing including long pants and long sleeved shirts.

Skin protection

Chemical splash goggles or face shield.

Eye/face protection

Not available.

Medical Surveillance

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic Physical and Chemical Properties**

Physical state

Liquid

Color

Colorless (light)

Odor

Odorless

Odor threshold

Not available

pH

Not available

Boiling point

176 to 192 °C (1013 hPa)

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Melting point	-81°C (-113.8°F)
Flash point	Closed cup: 45°C (113°F) [DIN 51755]
Evaporation rate	Not available.
Explosion limits	Lower: 0.5% ; Upper: 4%
Vapor pressure	1 hPa (20°C)
Density	0.74 g/cm <sup>3</sup> [20°C (68°F)]
Specific gravity (relative density)	Not available
Solubility	<0.0001 g/l (water)
Vapor density	5.9 (Air = 1)
Auto ignition temperature	410°C (770°F)
Viscosity	Kinematic: 0.052 cm <sup>2</sup> /s
Decomposition temperature	Not available

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**SECTION 10 – STABILITY AND REACTIVITY**

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<b>10.1</b>	<b>Relativity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2</b>	<b>Stability</b>	The product is stable
<b>10.3</b>	<b>Possibility of Hazardous Reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur
<b>10.4</b>	<b>Conditions to Avoid</b>	Strong oxidizing agents
<b>10.5</b>	<b>Incompatible Materials</b>	Reactive or incompatible with the following materials: oxidizing materials
<b>10.6</b>	<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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<b>11.1</b>	<b>Information on Routes of Exposure</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>11.2</b>	<b>Potential Acute Health Effects</b>	
	Eye contact	No known significant effects or critical hazards.
	Inhalation	No known significant effects or critical hazards.
	Ingestion	May be fatal if swallowed and enters airways.
	Skin contact	Defatting to the skin. May cause skin dryness and irritation.
<b>11.3</b>	<b>Symptoms related to Physical, Chemical and Toxicological Characteristics</b>	
	Eye contact	No specific data
	Inhalation	No specific data
	Skin contact	May cause defatting of the skin with symptoms of dryness and cracking
	Ingestion	No specific data
<b>11.4</b>	<b>Potential Chronic Health Effects</b>	

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Short term exposure	
Potential immediate effects:	Not available
Long term exposure	
Potential delayed effects:	Not available.
General:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

**11.5 Carcinogenicity**

Isododecane:	Not classified by IARC
	Not classified by NTP
	Not classified by OSHA

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**12.1 Persistence and Degradability**

Not available

**12.2 Bioaccumulative Potential**

Isododecane:	Log Pow	BCF	Potential
	6.96	-	high

**12.3 Mobility in Soil**

Soil/water partition coefficient (KOC)	Not available.
Other adverse effects	No known significant effects or critical hazards.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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**13.1 Waste Treatment Methods**

The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

**13.2 RCRA Classification**

When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste (EPA Hazardous Waste Number D001). (40 CFR 261.20-24)

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**SECTION 14 – TRANSPORTATION INFORMATION**

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**14.1 Shipping Description**

Regulatory Information  
UN Number  
Proper Shipping Name  
Classes  
PG\*  
Label

DOT Classification  
UN2286  
PENTAMETHYLHEPTANE  
3  
III



Additional Information|

B1, IB3, T2, TP1

Regulatory Information  
UN Number  
Proper Shipping Name  
Classes  
PG\*  
Label

IMDG Class  
UN2286  
PENTAMETHYLHEPTANE  
3  
III



Additional Information|

Emergency  
schedules (EmS)  
F-E, S-D

Regulatory Information  
UN Number  
Proper Shipping Name  
Classes  
PG\*  
Label

IATA0DGR Class  
UN2286  
PENTAMETHYLHEPTANE  
3  
III



Additional Information|

Passenger aircraft  
355: 60 L  
Cargo aircraft  
366: 220 L

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**SECTION 15 – REGULATORY INFORMATION**

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**SARA 311/312**

Fire hazard  
Immediate (acute) health hazard

**SARA Title III Section 302 Extremely Hazardous  
Substances**

None



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**SARA Title III Section 313 Toxic Chemicals**

None

**US EPA CERCLA Hazardous Substances (40 CFR 302)**

None

**State Regulations**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>
Isododecane	93685-81-5	
Massachusetts Substances: MA - S		
Massachusetts Extraordinary Hazardous Substances: MA - Extra HS		
New Jersey Hazardous Substances: NJ - HS		
Pennsylvania RTK Hazardous Substances: PA - RTK HS		
Pennsylvania Special Hazardous Substances: PA - Special HS		

Concentration (100%)

100

**California Prop. 65**

To the best of our knowledge, 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.

**U.S. Toxic Substances Control Act**

This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

**SECTION 16 – OTHER INFORMATION**

**Hazardous Material Information System**

<b>Health</b>	2
<b>Flammability</b>	2
<b>Physical hazards</b>	0

0= Insignificant 1= Slight 2= Moderate 3= High  
 4= Extreme \*= Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

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**National Fire Protection Association (U.S.A.)**

Health:	2
Flammability:	2
Instability/Reactivity:	0
Special:	-

0= Minimal 1=Slight 2=Moderate 3=Serious  
4=Severe

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