

Revision Number 1

Revision date 27-May-2015

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product Code** C008090  
**Product name** HINDINOL®

### Other means of identification

**Synonyms** No information available

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

**Recommended use** Concentrated aromatic raw material intended for manufacturing use

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

Takasago International Corporation (USA)  
 4 Volvo Drive  
 Rockleigh, NJ 07647 USA  
 Phone: 1-201-767-9001

### Emergency Telephone Number

**Company Phone Number** Health & Environmental: 1-201-767-9001 9 a.m - 5 p.m. EST M-F

### Emergency Telephone Number

CHEMTREC: 1-800-424-9300 24 hours Everyday  
 CHEMTREC (International): 01-703-527-3887 [U.S.A.] 24 hours Everyday

## 2. Hazards Identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
-----------------------------------	-------------

### Label Elements

#### **Warning**

#### **Hazard Statements**

Causes serious eye irritation



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

**Hazards Not Otherwise Classified (HNOC)**

None known

**Other Information**

**Other Hazards** None known

**Unknown acute toxicity** No information available

**3. Composition/information on Ingredients**

**Formula** C13H22O  
**Hazardous components**

	CAS No	Weight-%	Trade secret
2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-butanol	28219-60-5	>=90%	*

**4. First aid measures**

**FIRST AID MEASURES**

**General advice** When in doubt or if symptoms are observed, get medical advice.

**Inhalation** Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

**Skin Contact** Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

**Eye contact** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**Ingestion** If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

**Self-protection of the first aider** Use personal protection recommended in Section 8.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms** No known symptoms to date.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to physicians** Treat symptomatically.

**5. Fire-fighting measures**

**Suitable extinguishing media**

Foam. Carbon dioxide (CO2). Dry extinguishing powder.

**Large Fire** Alcohol resistant foam. Water spray.

**Unsuitable extinguishing media** Full water jet.

**Specific hazards**

In case of fire may be liberated, Carbon monoxide, Carbon dioxide (CO2), Burning produces heavy smoke, Do not inhale explosion and combustion gases.

**Protective equipment and precautions for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Remove all sources of ignition. Provide adequate ventilation as well as local exhaust at critical locations. See section 7 for more information.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

**Methods and material for containment and cleaning up**

**Methods for cleaning up** Clean contaminated surface thoroughly.

**7. Handling and Storage**

**Precautions for Safe Handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Wear protective gloves and eye/face protection. See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaust at critical locations. Handle and open container with care.

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

**Storage Conditions** Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Protect from direct sunlight. Remove all sources of ignition. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

**8. Exposure Controls/Personal Protection**

**Control Parameters**

**Exposure guidelines** This product does not contain any substances with occupational exposure limits established by OSHA under 29 CFR 1910 subpart Z, ACGIH or NIOSH.

**Appropriate Engineering Controls**

**Engineering Controls** Provide adequate ventilation as well as local exhaust at critical locations. Do not subject to unnecessarily high temperatures during processing.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Eye glasses with side protection.

**Hand Protection** Wear chemically resistant gloves in combination with 'basic' employee training.

**Skin and body protection** Wear appropriate personal protective clothing to prevent skin contact.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

**FEMA Statement** This product does not contain any substances at  $\geq 0.1\%$  listed as High Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturing Workplace (2012 edition)  
This product does not contain any substances at  $\geq 1.0\%$  listed as Low Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturing Workplace (2012 edition)

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Liquid	
Color	Colorless to pale yellow	
Odor	fresh and strong sandalwood odor	
Odor threshold	No data available	
<b>Property</b>	<b>VALUES</b>	<b>Remarks • Method</b>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash Point	131 °C / 268 °F	ISO 2719:2002
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper Flammability Limit	No data available	
Lower Flammability Limit	No data available	
Vapor pressure	0.000118 mmHg@20°C (calculated)	
Vapor Density	No data available	
Relative Density	0.919-0.928 (D20°C/20°C)	
Relative Density	0.916-0.925 (D25°C/25°C)	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	soluble in 60% Alcohol	
Partition coefficient	log Kow = 4.65 (calculated)	
Autoignition Temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

### Other Information

Molecular weight	194.3
Refractive Index	1.483-1.492 (n <sub>20°C/D</sub> )

## 10. Stability and Reactivity

### Reactivity

None under normal use conditions.

### Chemical Stability

Stable under normal conditions. Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Extremes of temperature and direct sunlight. Do not heat closed containers.

**Incompatible Materials**

Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous Decomposition Products**

None under normal use.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

Product information	No data available.
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

**Information on Toxicological Effects**

Symptoms No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Skin Corrosion/Irritation	A 48-hour closed patch test conducted on humans at 0.5% in petrolatum resulted in no effects. A 48-hour closed patch test conducted on guinea pigs resulted in severe irritation at 100%, mild irritation at 10% and no irritation at 1%. A 2 week cumulative skin irritation study conducted on guinea pigs resulted in mild irritation at 10% and no effects at 5%.
Sensitization	A guinea pig maximization test conducted at concentrations up to 30% in ethanol resulted in no sensitization effects.
Mutagenic effects	No information available.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

**Numerical Measures of Toxicity - Product information**

Oral LD50 > 2000 mg/kg (rats)

## 12. Ecological Information

Ecotoxicity	No information available
Persistence and Degradability	No information available.
Bioaccumulation	No information available
Other Adverse Effects	No information available

## 13. Disposal Considerations

**Waste Treatment Methods**

Waste disposal method Dispose of in accordance with local regulations.

Contaminated Packaging Do not reuse container.

### 14. Transport Information

#### DOT Non-bulk Packaging

UN/ID no	Not regulated
Proper Shipping Name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Marine Pollutant	Not applicable

#### Air transport

UN/ID no	3082
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol)
Hazard class	9
Packing group	III

#### IMDG/IMO

UN/ID no	3082
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol)
Hazard class	9
Packing group	III
EmS No	F-A, S-F
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO

### 15. Regulatory Information

#### Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### SARA 311/312 Hazardous Categorization

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### 16. Other Information

Revision date 27-May-2015

#### Disclaimer

The information in this MSDS was obtained from current and reputable sources. However, the data is provided without any warranty, express or implied regarding its accuracy. Where the handling, storage and disposal of this material is beyond the immediate control of Takasago International Corporation, it shall be the user's responsibility to determine safe conditions for the use of this product. The user assumes all liability for loss, injury damage or expense resulting from the improper use of this product.

End of Safety Data Sheet