

# **SAFETY DATA SHEET**

Creation Date 26-Sep-2009 Revision Date 28-Mar-2024 Revision Number 3

## 1. Identification

Product Name (S)-(-)-1-Phenylethanol

Cat No. : B21188

**CAS No** 1445-91-6

Synonyms (S)-(-)-\$1-Methylbenzyl alcohol

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

### Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill. MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

#### Classification

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

Flammable liquids
Category 4
Acute oral toxicity
Category 4
Skin Corrosion/Irritation
Category 2
Serious Eye Damage/Eye Irritation
Category 2
Specific target organ toxicity (single exposure)
Category 3

Target Organs - Respiratory system.

### Label Elements

## Signal Word

Warning

### **Hazard Statements**

Combustible liquid Harmful if swallowed

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Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation



### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### **Eyes**

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

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

## Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Ethanol, 1-phenyl-, (S)-(-)-	1445-91-6	99

## 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

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respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or

other proper respiratory medical device. Get medical attention.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

**Notes to Physician** 

Difficulty in breathing. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

## Fire-fighting measures

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO2). Dry chemical. Chemical foam. Water mist may be used

to cool closed containers.

**Unsuitable Extinguishing Media** No information available

85 °C / 185 °F **Flash Point** 

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Combustible material. Flammable. Containers may explode when heated.

### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health **Flammability** Instability Physical hazards 2 2 0 N/A

## Accidental release measures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment as required. Remove all

sources of ignition. Take precautionary measures against static discharges.

Should not be released into the environment. **Environmental Precautions** 

Up

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Do not let this chemical enter the environment. Remove all sources of ignition.

# 7. Handling and storage

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe Handling

mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Wash hands before breaks and immediately after handling the product. Keep away from

open flames, hot surfaces and sources of ignition.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away Storage.

from heat, sparks and flame. Keep containers tightly closed in a dry, cool and

well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations **Engineering Measures** 

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin and body protection

No protective equipment is needed under normal use conditions. **Respiratory Protection** 

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## Physical and chemical properties

**Physical State** Liquid Colorless **Appearance** 

Odor aromatic **Odor Threshold** No information available

No information available pН 9 - 11 °C / 48.2 - 51.8 °F Melting Point/Range

98 °C / 208.4 °F @ 20 mmHg **Boiling Point/Range** Flash Point 85 °C / 185 °F

**Evaporation Rate** No information available Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper

No data available Lower No data available **Vapor Pressure** No information available

**Vapor Density** 4.21 **Specific Gravity** 1.010

No information available Solubility No data available Partition coefficient; n-octanol/water **Autoignition Temperature** No information available **Decomposition Temperature** No information available No information available

Viscosity

Molecular Formula C8 H<sub>10</sub> O **Molecular Weight** 122.17

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials** Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides

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Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

Product Information Component Information Toxicologically Synergistic

No information available

**Products** 

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

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Ethanol, 1-phenyl-,	1445-91-6	Not listed				
(S)-(-)-						

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

**Persistence and Degradability**Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

## 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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## 14. Transport information

DOT

UN-No UN2937

Proper Shipping Name ALPHA-METHYLBENZYL ALCOHOL

Hazard Class 6.1 Packing Group III

TDG

UN-No UN2937

Proper Shipping Name ALPHA-METHYLBENZYL ALCOHOL

Hazard Class 6.1
Packing Group

<u>IATA</u>

UN-No UN2937

Proper Shipping Name alpha-METHYLBENZYL ALCOHOL, LIQUID

Hazard Class 6.1 Packing Group III

IMDG/IMO

**UN-No** UN2937

Proper Shipping Name alpha-METHYLBENZYL ALCOHOL, LIQUID

Hazard Class 6.1 Packing Group III

## 15. Regulatory information

### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory
			Active-Inactive	Flags
Ethanol, 1-phenyl-, (S)-(-)-	1445-91-6	=	-	-

#### Legend

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ethanol, 1-phenyl-, (S)-(-)-	1445-91-6	-	-	-	Х	Х	Х	Х	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. 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 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ethanol, 1-phenyl-, (S)-(-)-	1445-91-6	-	-	-

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ethanol, 1-phenyl-, (S)-(-)-	1445-91-6	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### **Other International Regulations**

ſ	Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
	•		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
1			Qualifying Quantities	<b>Qualifying Quantities</b>		

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		for Major Accident for Safety Report Requirements			
Ethanol, 1-phenyl-, (S)-(-)-	1445-91-6	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Health, Safety and Environmental Department

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www.thermofisher.com

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**Revision Summary** New emergency telephone response service provider.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text

**End of SDS**