

# **SAFETY DATA SHEET**

Revision Date 25-Dec-2021 Revision Number 6

1. Identification

Product Name 2-Phenylethanethiol

Cat No.: AC378490000; AC378490100; AC378490500

**CAS No** 4410-99-5

**Synonyms** 2-Phenylethyl mercaptan; Benzeneethanethiol

Recommended Use Laboratory chemicals.

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

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number For information US call: 001-800-ACROS-01 / 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
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2

Label Elements

**Signal Word** 

Warning

**Hazard Statements** 

Combustible liquid
Causes skin irritation
Causes serious eye irritation

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#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking

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

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

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

#### Storage

Store in a well-ventilated place. Keep cool

## **Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

#### Other hazards

Stench.

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
2-Phenylethanethiol	4410-99-5	<=100	

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

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

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

tiredness, nausea and vomiting

**Notes to Physician** 

Treat symptomatically

# Fire-fighting measures

None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness,

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Suitable Extinguishing Media Water spray, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Chemical foam, Use:, Alcohol resistant

foam. Water mist may be used to cool closed containers.

**Unsuitable Extinguishing Media** No information available

90 °C / 194 °F **Flash Point** 

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

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

#### **Specific Hazards Arising from the Chemical**

Combustible material. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Containers may explode when heated.

#### **Hazardous Combustion Products**

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

#### **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

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

sources of ignition. Take precautionary measures against static discharges.

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

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

Remove all sources of ignition.

7.	Handling	and	storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid Handling

ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open

flames, hot surfaces and sources of ignition.

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

well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases.

## 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.

None under normal use conditions. Ensure adequate ventilation, especially in confined **Engineering Measures** 

areas. Ensure that eyewash stations and safety showers are close to the workstation

location.

**Personal Protective Equipment** 

**Eye/face Protection** Tight sealing safety goggles.

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

resistant apron. Antistatic boots. Impervious gloves.

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

**Hygiene Measures** When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

# 9. Physical and chemical properties

Physical State Liquid
Appearance Clear
Odor Stench

Odor Threshold

pH

No information available

No information available

Melting Point/Range No data available

**Boiling Point/Range** 97 - 100 °C / 206.6 - 212 °F @ 12 mmHg

**Flash Point** 90 °C / 194 °F **Evaporation Rate** No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper<br/>LowerNo data available<br/>No data availableVapor PressureNo information availableVapor DensityNo information available

Specific Gravity 1.030

Solubility No information available

Partition coefficient; n-octanol/water

Autoignition Temperature

No data available
No information available

Decomposition Temperature

No information available

Viscosity

No information available

No information available

Molecular FormulaC8 H10 SMolecular Weight138.23

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** No information available.

Conditions to Avoid Incompatible products. Heating in air. Keep away from open flames, hot surfaces and

sources of ignition.

Incompatible Materials Strong oxidizing agents, Strong bases

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

Product Information No act Component Information

No acute toxicity information is available for this product

Toxicologically Synergistic No information available

**Products** 

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

IrritationNo information availableSensitizationNo 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
2-Phenylethanethiol	4410-99-5	Not listed				

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

STOT - single exposure
STOT - repeated exposure
None known
None known

Aspiration hazard No information available

delayed

**Teratogenicity** 

Endocrine Disruptor Information No information available

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

No information available.

# 12. Ecological information

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

**Ecotoxicity** 

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Persistence and Degradability

Bioaccumulation/ Accumulation

No information available.

Mobility

No information available.

# 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.

## 14. Transport information

DOT

UN-No UN3334

Proper Shipping Name AVIATION REGULATED LIQUID, N.O.S. (2-Phenylethanethiol)

Hazard Class 9
Packing Group III

TDG

UN-No UN3334

Proper Shipping Name AVIATION REGULATED LIQUID, N.O.S.

Hazard Class 9
Packing Group III

**IATA** 

UN-No UN3334

Proper Shipping Name AVIATION REGULATED LIQUID, N.O.S. (2-Phenylethanethiol)

Hazard Class 9
Packing Group III

IMDG/IMO Not regulated

# 15. Regulatory information

## **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
2-Phenylethanethiol	4410-99-5	-	-	-	

### Legend:

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

X - Listed '-' - Not Listed

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
2-Phenylethanethiol	4410-99-5	-	-	224-563-9	-	-		-	-	=

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

#### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

**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

#### Authorisation/Restrictions according to EU REACH

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

Slight risk, Grade 1

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2-Phenylethanethiol	4410-99-5	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
2-Phenylethanethiol	4410-99-5	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

Prepared By Regulatory Affairs

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Revision Date 25-Dec-2021 Print Date 25-Dec-2021

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### 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**