

# **SAFETY DATA SHEET**

Creation Date 03-Nov-2010 Revision Date 18-Jan-2018 Revision Number 2

1. Identification

Product Name 1-Phenyl-2-butanone

Cat No.: AC159880000; AC59880050; AC159880250

Synonyms Benzyl ethyl ketone

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific Acros Organics
One Reagent Lane 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
Acute oral toxicity Category 4

**Label Elements** 

Signal Word Warning

**Hazard Statements** 

Combustible liquid Harmful if swallowed



**Precautionary Statements** 

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

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

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 cool

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 %		
1-Phenylbutan-2-one	1007-32-5	>95		

## 4. First-aid measures

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

**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 if

symptoms occur.

**Inhalation** Move to fresh air. 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. Obtain medical attention. If not breathing,

give artificial respiration.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and

effects

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**Notes to Physician** 

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting

Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media CO 2, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire

with water spray.

Unsuitable Extinguishing Media No information available

Flash Point 90 °C / 194 °F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper

No information available

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. Risk of ignition. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) **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.

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HealthFlammabilityInstabilityPhysical hazards220N/A

## 6. Accidental release measures

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate

ventilation. Avoid contact with skin, eyes and clothing. Take precautionary measures

against static discharges.

**Environmental Precautions** Avoid release to the environment.

Methods for Containment and Clean Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable,

**Up** closed containers for disposal.

# 7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing. Avoid ingestion and inhalation. Keep away from open flames, hot

surfaces and sources of ignition.

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

and sources of ignition.

### 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting/equipment. Ensure that eyewash stations 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.

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

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

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and clothing.

## 9. Physical and chemical properties

Liauid **Physical State** 

**Appearance** Clear, colorless solution No information available Odor **Odor Threshold** No information available No information available pН

Melting Point/Range No data available

**Boiling Point/Range** 109 - 112 °C / 228.2 - 233.6 °F @ 15 mmHg

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

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper No data available No data available Lower No information available **Vapor Pressure** Vapor Density No information available **Density** 0.99 g/mL @ 25°C **Specific Gravity** No information available Solubility No information available

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

**Viscosity** 

C10 H12 O **Molecular Formula Molecular Weight** 148.21

# 10. Stability and reactivity

**Reactive Hazard** No

Stability Stable under normal conditions.

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

Excess heat.

Strong oxidizing agents, Strong acids **Incompatible Materials** 

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon

monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

# Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

No information available **Toxicologically Synergistic** 

**Products** 

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

May cause eye, skin, and respiratory tract irritation Irritation

Sensitization No information available

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#### Carcinogenicity

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

Component	CAS-No	CAS-No IARC		ACGIH	OSHA	Mexico	
1-Phenylbutan-2-one	1007-32-5	Not listed	Not listed	Not listed	Not listed	Not listed	

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

No information available. **Developmental Effects** 

**Teratogenicity** No information available.

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

No information available Aspiration hazard

delayed

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

**Endocrine Disruptor Information** No information available

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

# 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains.

Persistence and Degradability No information available

**Bioaccumulation/ Accumulation** No information available.

No information available. Mobility

# 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	Not regulated
<u>TDG</u>	Not regulated
DOT TDG IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

# International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
1-Phenvlbutan-2-one	-	-	-	213-752-1	-		Х	-	Х	-	-

# Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b) Not applicable

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 No information available

### 16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

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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**

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