# Chemical Safety Data Sheet MSDS / SDS

# propanedial

Revision Date: 2022-12-24 Revision Number: 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name : propanedial

CBnumber : CB11236081

CAS : 542-78-9

Synonyms : Propanedial, Malonaldehyde.

# Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

# **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 010-86108875

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

no data available

#### Label elements

# Pictogram(s)

Signal word no data available

#### Hazard statement(s)

no data available

# Precautionary statement(s)

#### Prevention

no data available

# Response

no data available

#### Storage

no data available

#### Disposal

no data available

#### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

#### **Substance**

Product name : propanedial

Synonyms : Propanedial, Malonaldehyde.

CAS : 542-78-9
MF : C3H4O2
MW : 72.06

# SECTION 4: First aid measures

# Description of first aid measures

#### If inhaled

Fresh air, rest. Refer for medical attention.

#### Following skin contact

Rinse and then wash skin with water and soap.

#### Following eye contact

Rinse with plenty of water for several minutes (remove contact lenses if easily possible).

#### Following ingestion

Rinse mouth. Give one or two glasses of water to drink.

#### Most important symptoms and effects, both acute and delayed

no data available

# Indication of any immediate medical attention and special treatment needed

no data available

# SECTION 5: Firefighting measures

#### **Extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

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

Not combustible.

# Advice for firefighters

In case of fire in the surroundings, use appropriate extinguishing media.

# SECTION 6: Accidental release measures

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

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

#### **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

#### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# SECTION 8: Exposure controls/personal protection

#### **Control parameters**

#### Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

#### **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

#### Individual protection measures

#### Eye/face protection

Wear safety goggles.

#### Skin protection

Protective gloves.

#### Respiratory protection

Use ventilation, local exhaust or breathing protection.

#### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

Physical state	NEEDLES.
Colour	no data available
Odour	no data available
Melting point/freezing point	72°C
Boiling point or initial boiling point and	108.3°C at 760mmHg
boiling range	
Flammability	no data available
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	28.9°C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water	-1.16
Vapour pressure	no data available
Density and/or relative density	0.991g/cm3
Relative vapour density	no data available
Particle characteristics	no data available

# SECTION 10: Stability and reactivity

# Reactivity

no data available

# **Chemical stability**

no data available

# Possibility of hazardous reactions

Decomposes on heating. This produces toxic fumes.

# **Conditions to avoid**

no data available

#### Incompatible materials

no data available

#### Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

# **Acute toxicity**

• Oral: no data available

• Inhalation: no data available

• Dermal: no data available

#### Skin corrosion/irritation

no data available

# Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

# Germ cell mutagenicity

no data available

# Carcinogenicity

no data available

# Reproductive toxicity

no data available

#### STOT-single exposure

no data available

### STOT-repeated exposure

no data available

# **Aspiration hazard**

A harmful concentration of airborne particles can be reached quickly.

# SECTION 12: Ecological information

#### **Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

#### Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

#### **Disposal methods**

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: no data available

IMDG: no data available
IATA: no data available

# **UN Proper Shipping Name**

ADR/RID: no data available

IMDG: no data available IATA: no data available

### Transport hazard class(es)

ADR/RID: no data available

IMDG: no data available

IATA: no data available

#### Packing group, if applicable

ADR/RID: no data available IMDG: no data available IATA: no data available

#### **Environmental hazards**

ADR/RID: No IMDG: No IATA: No

# Special precautions for user

no data available

#### Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations specific for the product in question

**European Inventory of Existing Commercial Chemical Substances (EINECS)** 

Not Listed.

**EC Inventory** 

Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Not Listed.

**PICCS** 

Not Listed.

**Vietnam National Chemical Inventory** 

Not Listed.

**IECSC** 

Not Listed.

Korea Existing Chemicals List (KECL)

Not Listed.

# **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average STEL: Short term exposure limit LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

#### Other Information

Health effects of exposure to the substance have not been investigated adequately.

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.