

## Chemical Safety Data Sheet MSDS / SDS

**2-HYDROXYEICOSANOIC ACID**

Revision Date:2026-05-31 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : 2-HYDROXYEICOSANOIC ACID  
CBnumber : CB8424389  
CAS : 16742-48-6  
Synonyms : 2-Hydroxyeicosanoic acid,2-hydroxyicosanoic acid

**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****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Warning

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see ... on this label).

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P337+P313 IF eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to.....

#### **Hazard statements**

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

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## SECTION 3: Composition/information on ingredients

### **Substance**

Product name	: 2-HYDROXYEICOSANOIC ACID
Synonyms	: 2-Hydroxyeicosanoic acid,2-hydroxyicosanoic acid
CAS	: 16742-48-6
MF	: C20H40O3
MW	: 328.53

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## SECTION 4: First aid measures

### **Description of first aid measures**

#### **General information**

No special measures required.

#### **After inhalation**

Supply fresh air; consult doctor in case of complaints.

#### **After skin contact**

Generally the product does not irritate the skin.

#### **After eye contact**

Rinse opened eye for several minutes under running water.

#### **After swallowing**

If symptoms persist consult doctor.

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

No further relevant information available.

#### **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing agents

Use fire fighting measures that suit the environment.

A solid water stream may be inefficient.

#### Special hazards arising from the substance or mixture

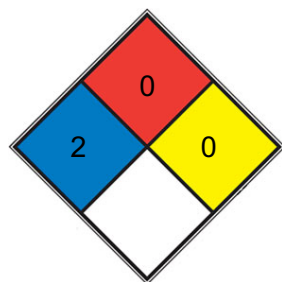
No further relevant information available.

#### Advice for firefighters

#### Protective equipment

No special measures required.

#### NFPA 704



HEALTH 2 Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. [diethyl ether](#), ammonium phosphate, iodine)

FIRE 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium,[N2](#))

SPEC.

HAZ.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Not required.

### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

### Methods and material for containment and cleaning up

Pick up mechanically.

### **Protective Action Criteria for Chemicals**

#### **PAC-1**

Substance is not listed.

#### **PAC-2**

Substance is not listed.

#### **PAC-3**

Substance is not listed.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

No special measures required.

### **Information about protection against explosions and fires**

No special measures required.

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

#### **Storage**

Store in accordance with information listed on the product insert.

### **Requirements to be met by storerooms and receptacles**

No special requirements.

### **Information about storage in one common storage facility**

Not required.

### **Further information about storage conditions**

None.

### **Specific end use(s)**

No further relevant information available.

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## **SECTION 8: Exposure controls/personal protection**

## **Control parameters**

### **Components with limit values that require monitoring at the workplace**

Not required.

### **Additional information**

The lists that were valid during the creation were used as basis.

### **Exposure controls**

#### **Appropriate engineering controls**

No further data; see section 7.

### **Personal protective equipment**

#### **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

#### **Breathing equipment**

Not required.

#### **Protection of hands**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection**

Not required.

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## SECTION 9: Physical and chemical properties

### **Information on basic physicochemical properties**

#### **Physical State**

Solid

#### **Color**

Not determined.

### **Odor**

Characteristic

### **Structural Formula**

C<sub>20</sub>H<sub>40</sub>O<sub>3</sub>

### **Molecular Weight**

328.5 g/mol

### **Storage Buffer**

### **Odor Threshold**

Not determined.

### **Formulation**

### **Melting point/Melting range**

Undetermined.

### **Boiling point/Boiling range**

458.9±18.0 °C(Predicted)

### **Flammability**

Product is not flammable.

### **Explosion limits**

Lower: Not determined.

Upper: Not determined.

### **Flash point**

Not applicable.

### **Decomposition temperature**

Not determined.

### **pH**

Not applicable.

### **Viscosity**

### **Kinematic**

Not applicable.

### **SOLUBILITY**

Chloroform:Methanol (5:1): soluble

**Dynamic**

Not applicable.

**Solubility in / Miscibility with**

Chloroform:Methanol (5:1): soluble

**Water**

Not determined.

**Partition coefficient (n-octanol/water)**

Not determined.

**Vapor Pressure**

Not applicable.

**Density**

0.935±0.06 g/cm<sup>3</sup>(Predicted)

**Relative Density**

0.935±0.06 g/cm<sup>3</sup>(Predicted)

**Vapor Density**

Not applicable.

**Particle characteristics**

Not determined.

**Other information****Appearance****Form**

Solid

**Important information on protection of health and environment, and on safety.****Ignition temperature**

Not determined.

**Danger of explosion**

Product does not present an explosion hazard.

**Change in condition****Evaporation Rate**

Not applicable.

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## SECTION 10: Stability and reactivity

### **Reactivity**

No further relevant information available.

### **Chemical stability**

### **Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

### **Possibility of hazardous reactions**

No dangerous reactions known.

### **Conditions to avoid**

No further relevant information available.

### **Incompatible materials**

No further relevant information available.

### **Hazardous decomposition products**

carbon dioxide, carbon monoxide

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## SECTION 11: Toxicological information

### **Information on toxicological effects**

### **Acute toxicity**

### **Primary irritant effect**

#### **on the skin**

No irritant effect.

#### **on the eye**

No irritating effect.

### **Sensitization**

No sensitizing effects known.

### **Additional toxicological information**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

### **Interactive effects**

No interactive effects between components are known.

### **Carcinogenic categories**

#### **IARC (International Agency for Research on Cancer)**

Substance is not listed.

#### **NTP (National Toxicology Program)**

Substance is not listed.

#### **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

### **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

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## SECTION 12: Ecological information

### **Toxicity**

#### **Aquatic toxicity**

No further relevant information available.

#### **Persistence and degradability**

No further relevant information available.

#### **Bioaccumulative potential**

No further relevant information available.

#### **Mobility in soil**

No further relevant information available.

### **Results of PBT and vPvB assessment**

#### **PBT**

Not applicable.

#### **vPvB**

Not applicable.

#### **PBT:**

Not applicable.

#### **vPvB:**

Not applicable.

#### **Other adverse effects**

#### **Additional ecological information**

#### **General notes**

Water hazard class 1 (Self-assessment) slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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## SECTION 13: Disposal considerations

#### **Waste treatment methods**

##### **Recommendation**

Smaller quantities can be disposed of with household waste.

##### **Uncleaned packagings**

##### **Recommendation**

Disposal must be made according to official regulations.

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## SECTION 14: Transport information

#### **UN-Number**

DOT, IMDG, IATA not regulated

#### **UN proper shipping name**

DOT, IMDG, IATA not regulated

#### **Transport hazard class(es)**

DOT, ADN, IMDG, IATA

Class not regulated

#### **Packing group**

DOT, IMDG, IATA not regulated

#### **Environmental hazards**

Not applicable.

#### **Special precautions for user**

Not applicable.

#### **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

MARPOL73/78 and the IBC Code Not applicable.

## UN "Model Regulation"

not regulated

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## SECTION 15: Regulatory information

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

No further relevant information available.

#### Sara

Section 355 (extremely hazardous substances):	Substance is not listed.
Section 313 (Specific toxic chemical listings):	Substance is not listed.
TSCA (Toxic Substances Control Act):	Substance is not listed.
Hazardous Air Pollutants:	Substance is not listed.
Chemicals known to cause cancer:	Substance is not listed.
Chemicals known to cause reproductive toxicity for females:	Substance is not listed.
Chemicals known to cause reproductive toxicity for males:	Substance is not listed.
Chemicals known to cause developmental toxicity:	Substance is not listed.

#### Carcinogenic categories

EPA (Environmental Protection Agency):	Substance is not listed.
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#### TLV (Threshold Limit Value)

Substance is not listed.

#### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

#### Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

**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.