

**Safety Data Sheet**  
**According to Regulation (EC) No 1907/2006, Annex II,**  
**Amended by COMMISSION REGULATION (EU) 2020/878,**  
**According to REGULATION (EC) No 1272/2008**

R-2021

Version 1.1

Issue date: 24-10-2023

Revision date: 24-10-2023

SDS Record Number: CSSS-TCO-010-144707

**Section 1 Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier:**

Identification on the label/Trade name: R-2021  
Additional identification: N/A  
UFI: N/A  
Identification of the product: See section 3  
Index Number: See section 3  
REACH registration No.: 01-2119489379-17-0229

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

**1.2.1 Identified uses:**

Not available.

**1.2.2 Uses advised against:**

Not available.

**1.3 Details of the supplier of the safety data sheet:**

Supplier(Only representative): Chemical Inspection & Regulation Service Limited  
Supplier(Manufacturer): Guangdong Huiyun Titanium Industry Corporation Limited  
Address: Liudu Town, Yun'an County, Yunfu City, Guangdong, China.  
Contact person(E-mail): xsb@gdtitanium.com  
Telephone: +86-0766-8495123  
Fax: -

**1.4 Emergency telephone Number:**

+86-0766-8495123 Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours? YES  NO

**Section 2 Hazards Identification**

**2.1 Classification of the substance or mixture:**

**2.1.1 Classification of the mixture:**

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Not classified	Not available

For full text of H- phrases: see section 2.2.

**2.2 Label elements:**

**Hazard pictogram(s):** No hazard pictogram  
**Signal word:** No signal word  
**Hazard statement(s):** No hazard statement  
**Precautionary statement(s):** No precautionary statement.

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**2.3 Other hazards:**

The mixture does not contain PBT/vPvB substance.

The mixture does not contain endocrine disruptor.

**Section 3 Composition/information on ingredients****Substance/Mixture:**

Mixture

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Titanium dioxide	01-2119489379-1 7-0229	13463-67-7	236-675-5	93.0-94.0%	Not classified
Silicon dioxide	N/A	14808-60-7	238-878-4	1.0-2.5%	Not classified
Aluminium oxide	N/A	1344-28-1	215-691-6	3.0-4.5%	Not classified
Water	N/A	7732-18-5	231-791-2	0.5-1.0%	Not classified

**Section 4 First aid measures****4.1 Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

**4.1.1 In case of inhalation:**

Move to fresh air, cover and keep him warm. Call a physician immediately.

**4.1.2 In case of skin contact:**

Wash with soap and water.

**4.1.3 In case of eyes contact:**

Rinse immediately with plenty of water. If irritation persists, seek medical attention.

**4.1.4 In case of ingestion:**

No adverse health effects anticipated by this route, however, in the event of ingestion, increase intake of liquid in order to flush from the body. In case of persistent symptoms, consult a doctor.

**4.2 Most important symptoms and effects, both acute and delayed:**

Not available.

**4.3 Indication of any immediate medical attention and special treatment needed:**

If skin irritation or rash occurs, get medical advice/attention.

**Section 5 Firefighting measures****5.1 Extinguishing media:****Suitable extinguishing media:**

Use any media appropriate for combustible material in the area.

**Unsuitable extinguishing media:**

Not available.

**5.2 Special hazards arising from the substance or mixture**

Toxic gases, smoke, and oxides of Carbon will form upon combustion.

**5.3 Advice for firefighters:**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

**Section 6 Accidental release measures**

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

**6.1.1 For non-emergency personnel:** Use suitable personal protective equipment. Provide good ventilation. Avoid generating and inhaling dust. Avoid contact with skin and eyes.

**6.1.2 For emergency responders:** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing.

## 6.2 Environmental Precautions:

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

## 6.3 Methods and material for Containment and Cleaning up:

Large leaks / Small leaks: For indoor spills, provide more ventilation as needed to minimize exposure. Follow the appropriate surface or surface conditions below to remove spills. Dispose of absorbent and other waste in a suitable chemical waste container. Wear suitable personal protective equipment. Wash thoroughly after handling.

## 6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling:

**7.1.1 Protective measures:** Keep away from open flames, hot surfaces and sources of ignition. In case of poor ventilation wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling and prohibit eating in the workplace. Handling products should be carefully unloading, to avoid damage to packaging and containers.

**7.1.2 Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store in correctly labelled containers. Keep container tightly closed, in a cool, well ventilated place. Protect from sunlight.

### 7.3 Specific end use(s):

Not applicable.

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control parameters:

**8.1.1 Occupational exposure limits:** Not available.

**8.1.2 Additional exposure limits under the conditions of use:** Not available.

**8.1.3 DNEL/DMEL and PNEC-Values:** Not available.

### 8.2 Exposure controls:

**8.2.1 Appropriate engineering controls:** Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

#### 8.2.2 Individual protection measures, such as personal protective equipment:

**Eye/face protection:** Wear chemical safety glasses.

#### Skin protection

**Hand protection:** Wear appropriate protective gloves.

**Body protection:** Wear appropriate protective clothing.

**Respiratory protection:** Not required under normal conditions; wear air-breathing respirator in case of emergency.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

#### 8.2.3 Environmental exposure controls:

Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	White
Odour:	odourless
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	1843 °C
Boiling point/range (°C):	3000 °C
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Density:	3.9 g/cm <sup>3</sup> (20° C)
Bulk density (kg/m <sup>3</sup> ):	Not available
Water solubility (g/l):	Not available
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Non explosive
Oxidising properties:	Non oxidising

### 9.2. Other information:

Fat solubility(solvent-oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water( pKa):	Not available
Oxidation-reduction Potential:	Not available
VOC:	Not available

## Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials. Keep away from fire and heat.
10.5 Incompatible materials:	Strong acids, strong bases and oxidizing agents.
10.6 Hazardous decomposition products:	Toxic gases, fumes and carbon oxides.

## Section 11 Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Titanium dioxide, (CAS#13463-67-7)

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LD50(Oral, Rat):	> 2 000 mg/kg bw
LC50(Inhalation, Rat):	No data
LD50(Dermal, Rabbit):	No data
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
<b>11.2 Information on other hazards</b>	
Endocrine disrupting properties	The mixture does not contain endocrine disruptor.
Other information	Not applicable

## Section 12 Ecological information

### 12.1 Toxicity:

Cyclopentaneacetic acid, 3-oxo-2-pentyl-, (CAS#24851-98-7)

Acute (short-term) toxicity:

LC50(96h, Fish): Not available.

EC50(48h, Crustacea): Not available.

EC50(72h, Algae/aquatic plants): Not available.

Chronic (long-term) toxicity:

NOEC(Fish): Not available

NOEC(Crustacea): Not available.

NOEC (Algae/aquatic plants): Not available.

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: The mixture does not contain PBT / vPvB substance.

12.6 Endocrine disrupting properties: The mixture does not contain endocrine disruptor.

12.7 Other adverse effects: Not available.

12.8 Additional information: Not available.

## Section 13 Disposal considerations

**13.1 Waste treatment methods:** Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

## Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1 UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
14.7 Maritime transport in bulk according to IMO instruments	IBC08	IBC08	IBC08	IBC08

## Section 15 Regulatory information

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

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

Not applicable

15.2 Chemical safety assessment

YES

NO

## Section 16 Other information

### 16.1 Indication of changes:

Version 1.1 Amended by (EU) 2020/878

### 16.2 Abbreviations and acronyms:

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

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

UFI: Unique Formula Identifier

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

### 16.3 Key literature references and sources for data

ECHA Registered substances data

**16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Not available.	Not available.

**16.5 Relevant H-statements (number and full text):**

Not available..

**16.6 Training instructions:**

Not applicable.

**16.7 Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**16.8 Notice to reader:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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