

# SAFETY DATA SHEET

## Iron(II) carbonate

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

#### 1.1. Product identifier

Product name	Iron(II) carbonate
Product number	89994425
CAS number	563-71-3
EC number	209-259-6
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	For research purposes only.
Uses advised against	Not suitable for human consumption or veterinary purposes
1.3. Details of the supplier of the safety data sheet	
Supplier	Molekula Ltd.

Supplier	Molekula Ltd.
	Lingfield Way,
	Darlington,
	DL1 4XX,
	United Kingdom
	+44 (0) 3302000333
	info@molekula.com

#### 1.4. Emergency telephone number

+44 (0) 7769276927

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture	
Classification (SI 2019 No. 720)	

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
EC number	209-259-6
Hazard statements	NC Not Classified

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	

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Product name
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Iron(II) carbonate

CAS number	563-71-3
EC number	209-259-6
Chemical formula	FeCO3

SECTION 4: First aid measure	es esta esta esta esta esta esta esta es
4.1. Description of first aid me	asures
General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
Skin contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	Use protective equipment appropriate for surrounding materials.
4.2. Most important symptoms and effects, both acute and delayed	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	May be slightly irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.
SECTION 5: Firefighting measurements	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	
Specific bazards	None known

Specific hazards

None known.

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Oxides of the following substances: Iron. Carbon dioxide (CO2).
	Carbon monoxide (CO).
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	No specific recommendations. For personal protection, see Section 8.
6.2. Environmental precaution	<u>s</u>
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10).
	Protect from moisture.
Storage class	Unspecified storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure control	s/Personal protection
8.1. Control parameters	

8.2. Exposure controls

Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific hand protection recommended. Large Spillages: Wear protective gloves.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	Grey. to White.
Odour	Not known.
Odour threshold	No information available.
рН	No information available.
Melting point	No information available.
Initial boiling point and range	333.6°C/632.48°F @ 760 mm Hg
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	3.8
Solubility(ies)	Insoluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	115.85
SECTION 10: Stability and reactivity	

10.1. Reactivity

Reactivity

See the other subsections of this section for further details.

## 10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	Protect from moisture.
10.5. Incompatible materials	
Materials to avoid	Strong acids.
	Strong oxidising agents.
10.6. Hazardous decomposition products	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Oxides of:

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

Iron.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity - oral		
Summary	Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Summary	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation		
Summary	Based on available data the classification criteria are not met.	
Skin corrosion/irritation		
Summary	Based on available data the classification criteria are not met.	
Serious eye damage/irritation		
Summary	Based on available data the classification criteria are not met.	
Respiratory sensitisation		
Summary	Based on available data the classification criteria are not met.	
Skin sensitisation		
Summary	Based on available data the classification criteria are not met.	
Germ cell mutagenicity		
Summary	Based on available data the classification criteria are not met.	
Carcinogenicity		
Summary	Based on available data the classification criteria are not met.	
IARC carcinogenicity	None of the ingredients are listed or exempt.	
Reproductive toxicity		

Summon	Based on available data the classification criteria are not met.	
Summary		
Specific target organ toxicity -		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -		
Summary	Based on available data the classification criteria are not met.	
Aspiration hazard		
Summary	Not relevant. Solid.	
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	May be slightly irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	No specific target organs known.	
SECTION 12: Ecological infor	mation	
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.	
12.1. Toxicity		
Acute aquatic toxicity		
Summary	Based on available data the classification criteria are not met.	
Chronic aquatic toxicity		
Summary	Based on available data the classification criteria are not met.	
12.2. Persistence and degradability		
Persistence and degradability	The degradability of the product is not known.	
12.3. Bioaccumulative potential		
Bioaccumulative potential	No data available on bioaccumulation.	
Partition coefficient	No information available.	
12.4. Mobility in soil		
Mobility	No data available.	
12.5. Results of PBT and vPvB assessment		
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

#### SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### **SECTION 15: Regulatory information**

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

National regulationsHealth and Safety at Work etc. Act 1974 (as amended).<br/>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment<br/>Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br/>EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

#### EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

#### SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC50: Lethal Concentration to 50 % of a test population.</li> <li>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>EC₅₀: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Training advice	Only trained personnel should use this material.
Revision date	12/07/2022
Revision	1
SDS number	1136

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