

# SAFETY DATA SHEET

### Zinc Carbonate

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

### 1.1. Product identifier

Product name	Zinc Carbonate	
Product number	90026497	
CAS number	3486-35-9	
EC number	222-477-6	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	For research purposes only.	
Uses advised against	No specific uses advised against are identified.	
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	Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	
2.2. Label elements		
EC number	222-477-6	
Hazard pictograms		
Signal word	Warning	
Hazard statements	H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.	

Precautionary statements	P273 Avoid release to the environment.
	P391 Collect spillage.
	P501 Dispose of contents/ container in accordance with national regulations.

# 2.3. Other hazards

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

SECTION 3: Composition/inf	ormation on ingredients
3.1. Substances	
Product name	Zinc Carbonate
CAS number	3486-35-9
EC number	222-477-6
Chemical formula	CO3.Zn
SECTION 4: First aid measured	res
4.1. Description of first aid m	easures
General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	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 symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	Rinse with water.
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	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptom	es 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 immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting mea	isures
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.

#### Specific hazards None known. Hazardous combustion Thermal decomposition or combustion products may include the following substances: products Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Zinc/zinc oxides 5.3. Advice for firefighters Protective actions during Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with firefighting 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. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective for firefighters clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents. **SECTION 6: Accidental release measures** 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. 6.2. Environmental precautions **Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. 6.3. Methods and material for containment and cleaning up Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. 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. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13. 6.4. Reference to other sections Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13. **SECTION 7: Handling and storage** 7.1. Precautions for safe handling 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. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

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

Advice on generalWash promptly if skin becomes contaminated. Take off contaminated clothing. Washoccupational hygienecontaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Miscellaneous hazardous material 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	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	No specific hand protection recommended. Avoid contact with skin.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
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	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

Appearance	Solid.
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	169.8°C/337.64°F

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	4.44 g/cm3	
Solubility(ies)	Insoluble in water.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition Temperature	300°C/572°F	
9.2. Other information		
Molecular weight	125.39	
SECTION 10: Stability and rea	activity	
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	There are no known conditions that are likely to result in a hazardous situation.	
10.5. Incompatible materials		
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.	
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. Carbon dioxide (CO2). Carbon monoxide (CO). Zinc/zinc oxides	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
<u>Acute toxicity - oral</u> 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	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
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.
Summary	
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.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological infor	mation

### SECTION 12: Ecological information

12.1. Toxicity	
Acute aquatic toxicity	
Summary	Very toxic to aquatic life.
LE(C)50	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Chronic aquatic toxicity	

Summary	Toxic to aquatic life with long lasting effects.	
12.2. Persistence and degrada	ability	
Persistence and degradability	The degradability of the product is not known.	
12.3. Bioaccumulative potentia	a/	
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 vPvE	3 assessment	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal conside	erations	
13.1. Waste treatment method		
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. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.	
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.	
SECTION 14: Transport inform	nation	
General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.	
14.1. UN number		
UN No. (ADR/RID)	3077	
UN No. (IMDG)	3077	
UN No. (ICAO)	3077	
UN No. (ADN)	3077	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Carbonate)	
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Carbonate)	
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Carbonate)	
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Carbonate)	
14.3. Transport hazard class(es)		
ADR/RID class	9	

ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9
Transport labels	



14.4. Packing group		
ADR/RID packing group	111	
IMDG packing group	Ш	
ICAO packing group	Ш	
ADN packing group		

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

### 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 regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	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	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population. ECso: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.	
Classification abbreviations and acronyms	Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)	
Classification procedures according to SI 2019 No. 720	Aquatic Acute 1 - H400: Aquatic Chronic 2 - H411: : Expert judgement.	
Training advice	Only trained personnel should use this material.	
Revision date	05/05/2022	
Revision	1	
SDS number	923	
Hazard statements in full	H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.	

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.