

# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

Product identifier Product name:	CARBOPOL® ULTREZ 10 NF POLYMER
Additional identification Chemical name: CAS-No.:	Polyacrylic acid Not applicable.
Recommended use and restrict	ion on use
Recommended use: Restrictions on use:	Base Carbopol-Pharma None identified.
Details of the supplier of the sa	fety data sheet
Supplier	
	HE KNOWLE, NETHER LANE AZELWOOD, DERBYSHIRE, DE56 4AN
G	В
Telephone: (4	14) 01332-842211
2. Hazards identification Classification of the substance Prepared according to Glob Acute hazards to the aqua environment	al Harmonized System (GHS) standards.
Label Elements	
Signal Words:	Not applicable
Hazard Statement(s):	H402: Harmful to aquatic life.
Precautionary Statements	6
Prevention:	P273: Avoid release to the environment.
Disposal:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



## 3. Composition/Information on Ingredients

#### Mixtures

Chemical name	CAS number	Percent by Weight
Acrylic acid	79-10-7	0.1 - 0.5%
Cyclohexane	110-82-7	0.1 - 0.5%

#### 4. First aid measures

#### Description of first aid measures

Inhalation:	Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.
Eye contact:	Water (moisture) swells this product into a gelatinous film which may be difflicult to remove from the eye using only water. Immediately flush eyes with plenty of one percent (1%) physiological saline solution for five (5) minutes while holding eyelids open. If no saline is available, flush with plenty of clean water for fifteen (15) minutes. See a physician. Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.
Skin Contact:	Wash with soap and water. If skin irritation occurs, get medical attention.
Ingestion:	Treat symptomatically. Get medical attention.
Most important symptoms and effects, both acute and delayed:	See section 11.

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

Treatment:	Treat symptomatically.
5. Fire-fighting measures	
General Fire Hazards:	Avoid hose stream or any method which will create dust clouds.
Extinguishing media Suitable extinguishing media:	Use water spray, dry chemical or foam for extinction. CO2 may be ineffective on large fires.
Unsuitable extinguishing media:	Not determined.
Specific hazard arising from the chemical:	See section 10 for additional information.

#### Advice for firefighters

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Special fire fighting procedures:	This material has been evaluated and is considered to be a risk for dust explosion. It is categorized as Dust Explosion Class ST2. Material can form an explosive organic dust air mixture. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. This product has a high volume resistivity and a propensity to build up static electricity which may be discharged as a spark. A spark can be an ignition source for solvent vapor/air mixtures. As a precaution, implement standard safety measures for handling finely divided organic powders. If you add this product to a solvent, ensure appropriate safe handling practices such as provision for inerting flammable vapors. Take care to minimze airborne dust. Solid does not readily release flammable vapors.
Special protective equipment for fire-fighters:	Recommend wearing self-contained breathing apparatus.
6. Accidental Release Measure	95
Personal precautions, protective equipment and emergency procedures:	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent entry into sewers and waterways. Take precautions to avoid release to the environment.
Methods and material for containment and cleaning up:	Pick up free solid for recycle and/or disposal. Sweep up and place in a clearly labeled container for chemical waste. Avoid dust formation. Use wet sweeping compound or water to avoid raising a dust. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container. Wash spill area with detergent. Material is slippery when wet. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation.
Reference to other sections:	See sections 8 and 13 for additional information.
7. Handling and Storage:	
Precautions for safe handling:	Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid environmental contamination. Avoid conditions which create dust. Avoid breathing dust. Avoid contact with eyes and prolonged or repeated contact with skin. Ground container and transfer equipment to eliminate static electric sparks. Keep away from heat, sparks and open flame. Avoid drinking, tasting, swallowing or ingesting this product.
Maximum Handling Temperature:	Not determined.
Conditions for safe storage, including any incompatibilities:	Store away from incompatible materials. See section 10 for incompatible materials. Store in a dry, well-ventilated place. Keep containers closed when not in use.



# Maximum Storage < 80 °C Temperature:

## 8. Exposure Controls/Personal Protection

# **Control Parameters:**

# **Occupational Exposure Limits**

Chemical name	Туре	Exposure Limit Values	Source
Acrylic acid	TWA	2 ppm	US. ACGIH Threshold Limit Values (02 2012)
Cyclohexane	TWA	100 ppm	US. ACGIH Threshold Limit Values (02 2012)

#### Other exposure limits

Chemical name	Туре	Exposure Limit Values	Source
Polyacrylic acid	TWA	0,05 mg/m3	

Appropriate engineering controls:	To prevent dust explosions employ bonding and grounding for operations capable of generating static electricity. Minimize dust generation and accumulation. Provide adequate ventilation.
Individual protection measur	es, such as personal protective equipment
General information:	Use personal protective equipment as required.
Eye/face protection:	Use tight fitting goggles if dust is generated. Wear approved chemical safety glasses or goggles where eye exposure is reasonably probable.
Skin protection	
Hand Protection:	Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves. Suitable gloves can be recommended by the glove supplier.
Other:	Long sleeve shirt is recommended.
Respiratory Protection:	Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely.
Hygiene measures:	Wash thoroughly after handling. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

# 9. Physical and Chemical Properties

Information on basic physical and chemical properties Appearance Physical state: solid

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Form:	Powder
Color:	White

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Odor:	Mild sour/acidic
Odor Threshold:	No data available.
pH:	2,5 - 3 (1 % Water)
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	Not applicable.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosi	ve limits
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	1,4 (20 °C)
Solubility(ies)	
Solubility in Water:	Material will swell in water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Pour Point Temperature	No data available.
Other information	
Bulk density:	< 0,24 g/ml (25 °C)
Percent Solid:	> 97 % (Percent by Weight)
Max. Rate of Pressure Rise:	786 bar/s (500 g/m3)
Percent volatile:	< 3 % (Percent by Weight)

# 10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Static discharge. Moisture. Heat.
Incompatible Materials:	Strong bases. Alkalies. Bases.
Hazardous Decomposition Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.



# 11. Toxicological Information

Information on likely routes of exposure				
Inhalation:	No data available.			
Ingestion:	No data available.			
Skin Contact:	No data available.			
Eye contact:	No data available.			
Information on toxicological effects				
Acute toxicity				
<b>Oral</b> Product:	Not classified for acute toxicity based on available data.			
Dermal Product:	ATEmix > 5 000 mg/kg			
Inhalation	Avoid inhalation of dust. Animal studies indicate the inhalation of			
Product:	respirable polyacrylate dust may cause inflammatory changes in the			
	lung. Persons with sensitive airways (e.g., asthmatics) may react to			
	vapors. Breathing of dust may cause coughing, mucous production, and shortness of breath.			
	Not classified for acute toxicity based on available data.			
Skin Corrosion/Irritation	1:			
Product:	Pre-existing skin conditions may be aggravated by prolonged or			
	repeated exposure. Contact dermatitis may occur in sensitive individuals under extreme and unusual conditions of prolonged and			
	repeated contact, such as high exposure accompanied by elevated			
	temperature and occlusion by clothing. This effect may be the result			
	of the product's hygroscopic properties, abrasion, or pH. Classification: Not irritating (Measured); Rabbit.			
	Remarks: Not classified as a primary skin irritant.			
Serious Eye Damage/Eye Irritation:				
Product:	Remarks: Particles in the eyes may cause irritation and smarting. Remarks: Not classified as a primary eye irritant.			
Respiratory sensitizatio	n: No data available			
Skin sensitization:				
Product:	Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer.			
Cyclohexane	Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.			
Specific Target Organ Toxicity - Single Exposure: Product:				
Acrylic acid	Respiratory tract irritation.			
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Aspiration Hazard: Cyclohexane	Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.
Other effects: Product:	This material readily absorbs moisture and may become thick and gelatinous upon contact with mucous membranes of the eye, or upon inhalation into the nasal passages.
Chronic Effects Carcinogenicity:	No data available
Germ Cell Mutagenicity:	
Acrylic acid	Results of vitro mutagenicity tests have been positive.
Cyclohexane	This material has not exhibited mutagenic or genotoxic potential in laboratory tests.
Acrylic acid	Results of in vivo mutagenicity tests have been negative.
Reproductive toxicity:	No data available
Specific Target Organ Toxicity - F Product:	<b>Repeated Exposure:</b> A two-year inhalation study in rats exposed to a respirable, water- absorbent sodium polyacrylate dust resulted in lung effects such as inflammation, hyperplasia, and tumors. There were no observed adverse effects at exposures of 0.05 mg/m3. In addition, long-term medical monitoring of potentially exposed workers has not revealed lung effects such as those observed in the rat. However, the inhalation of respirable dusts should be avoided by implementing respiratory protection measures and observing the recommended permissible exposure limit of 0.05 mg/m3.
Acrylic acid	Prolonged or repeated exposure may cause kidney damage. Unknown: Target Organ(s): Kidney
12. Ecological Information	
Ecotoxicity	
<b>Fish</b> Acrylic acid	LC 50 (Rainbow Trout, 4 d): 27 mg/l
Cyclohexane	LC 50 (Fathead Minnow, 4 d): 4,5 mg/l

Aquatic Invertebrates Acrylic acid EC 50 (Water flea (Daphnia magna), 2 d): 95 mg/l

Cyclohexane EC 50 (Water flea (Daphnia magna), 2 d): 0,9 mg/l

#### Toxicity to Aquatic Plants Acrylic acid

EC 50 (Green algae (Selenastrum capricornutum), 3 d): 0,13 mg/l

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Cyclohexane	EC 50 (Green algae (Selenastrum capricornutum), 3 d): 9,317 mg/l	
Toxicity to soil dwelling organisn	ns No data available	
Sediment Toxicity	No data available	
Toxicity to Terrestrial Plants	No data available	
Toxicity to Above-Ground Organi	sms No data available	
Toxicity to microorganisms Acrylic acid	EC 50 (Sludge, 0,1 d): 900 mg/l	
Persistence and Degradability Biodegradation Acrylic acid	OECD TG 301 D, 80 %, 28 d, Readily biodegradable	
Cyclohexane	OECD TG 301 F, 77 %, 28 d Miscellaneous, 9 %, 28 d, Not readily degradable.	
Bioaccumulative Potential Bioconcentration Factor (BCF) No data available		
Partition Coefficient n-octanol / w Acrylic acid	vater (log Kow) Log Kow: 0,46 (calculated)	
Cyclohexane	Log Kow: 3,44 (Measured)	
Mobility:	No data available	
Other Adverse Effects:	No data available.	
13. Disposal Considerations		
with a Dispo natior	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.	
Contaminated Packaging: Conta	iner packaging may exhibit hazards.	
14. Transport Information		

# ΙΑΤΑ

Not regulated.



#### International standards

#### IMDG

Not regulated.

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

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

# 15. Regulatory Information

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

#### **Inventory Status**

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

#### China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACh)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

All components are in compliance in Korea.

#### New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt. The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

#### 16. Other Information

Key literature references and Internal company data and other publically available resources. sources for data:

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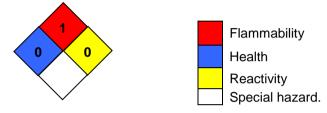


#### **HMIS Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

#### Issue Date:

25.08.2018

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