

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Sokalan® CP 5 Granules:

Chemical name: Acrylic acid and maleic anhydride, polymer, sodium salts.

Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: formulation auxiliary for the chemical industry.

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2. HAZARDS IDENTIFICATION

Label elements: Globally Harmonized System, EU (GHS)
The product does not require a hazard warning label in accordance with GHS criteria.
According to Directive 67/548/EEC or 1999/45/EC as in Annex VI of Directive 67/548/EEC
The product does not require a hazard warning label in accordance with EC Directives.

Classification of the substance or mixture: According to Regulation (EC) No 1272/2008 [CLP]
No need for classification according to GHS criteria for this product.
According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards: No particular hazards known.

Other hazards: According to Regulation (EC) No 1272/2008 [CLP]
specific dangers known, if the regulations/notes for storage and handling are considered.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical nature: Acrylic acid and maleic anhydride, polymer, sodium salts

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4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion: Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed:

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Indication of any immediate medical attention and special treatment needed:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture: harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions: Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up: For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding material and dispose of. Avoid raising dust.

Reference to other sections: Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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7. HANDLING AND STORAGE

Precautions for safe handling: Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion: Avoid dust formation. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities: Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Specific end use(s): For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Components with workplace control parameters: None, No occupational exposure limits known.

Exposure controls:

Personal protective equipment:

Respiratory protection: Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection: Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Form:	granules
Colour:	white
Odour:	product specific
pH value:	approx. 8 (DIN 19268) (10 %(m))
Melting point:	approx. > 150 °C
Boiling point:	not applicable
Flash point:	not relevant
Flammability:	does not ignite
Ignition temperature:	> 200 °C (DIN 51794)
Relative density:	Study does not need to be conducted.
Solubility in water:	approx. 400 g/l
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Self-ignition:	not self-igniting
Thermal decomposition:	> 150 °C
Viscosity, dynamic:	not applicable
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Other information:	Bulk density: approx. 580 g/l (ISO 697)

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability: The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions: No hazardous reactions when stored and handled according to instructions.

Conditions to avoid: Avoid humidity. See MSDS section 7 - Handling and storage.

Incompatible materials:

Substances to avoid: strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Experimental/calculated data: LD50 rat (oral): > 2,000 mg/kg

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Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization:

Experimental/calculated data: Guinea pig maximization test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12. ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish: LC50 (96 h) > 500 mg/l, *Leuciscus idus*

Aquatic invertebrates: EC50 (48 h) > 100 mg/l, *Daphnia magna*

Aquatic plants: EC50 (96 h) > 100 mg/l

Microorganisms/Effect on activated sludge: EC10 (18 h) 180 mg/l (DIN 38412 Part 8)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence and degradability:

Assessment biodegradation and elimination (H₂O): The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

Elimination information: > 90 % DOC reduction (OECD 303A; ISO 11733; 92/69 EEC,V, C.10) Easily eliminated from water.

Bioaccumulative potential: Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Mobility in soil (and other compartments if available):

Assessment transport between environmental compartments: not determined

Results of PBT and vPvB assessment: According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Additional information: Sum parameter
Chemical oxygen demand (COD): approx. 850 mg/g

Other ecotoxicological advice: Do not release untreated into natural waters.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods: The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

Contaminated packaging: Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

Land transport:

ADR: Not classified as a dangerous good under transport regulations

RID: Not classified as a dangerous good under transport regulations

Inland waterway transport:

AND: Not classified as a dangerous good under transport regulations

Sea transport:

IMDG: Not classified as a dangerous good under transport regulations

Air transport:

IATA/ICAO: Not classified as a dangerous good under transport regulations

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

Chemical Safety Assessment: Chemical Safety Assessment not required

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.