Material Safety Data Sheet

CHIMASSORB 81 (RXSOL-19-3356-088)

1. Product and Company Identifaction

Product Name	CHIMASSORB 81
Part Number	RXSOL-19-3356-088

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
Octabenzone	1843-05-6	217-421-2	= 100 %

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H317 May cause an allergic skin reaction.
Precautionary statements	P280 Wear protective gloves. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.
Classification of the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
Supplemental Hazard Statements	EUH032 Contact with acids liberates very toxic gas.
Other hazards	According to Regulation (EC) No 1272/2008 [CLP] The product is under certain conditions capable of dust explosion.

4. First Aid Measures

General advice	None
If inhaled	Keep patient calm, remove to fresh air, seek medical attention.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Skin Contact	Wash thoroughly with soap and water.
Inhalation	Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary.
Ingestion	Rinse mouth immediately and then drink plenty of water, seek medical attention.
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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

Flammability	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Flash Point	Dry powder Dry sand
Suitable extinguishing media	Dry powder, foam
Unsuitable extinguishing media	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.
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.
Hazardous combustion products	Fire may cause the evolution of Sulphur oxides, nitrogen oxides.
Advice for firefighters	Special protective equipment: Wear a self-contained breathing apparatus.
Protective Equipment	Use personal protective equipment.
Specific Hazards Arising from the Chemical	Oxides of phosphorus Sodium oxides Not combustible. Fire may cause evolution of: Oxides of phosphorus Ambient fire may liberate hazardous vapours.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Use personal protective clothing.
Spillage	Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Enviromental Precaution	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Methods and materials for containment and cleaning	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.

7. Handling and Storage

Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
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. Dust explosion class: Dust explosion class 2 (Kst-value 200 up to 300 bar m s-1). Dust explosion class 2 (Kst-value 200 up to 300 bar m s-1).
Storage conditions	Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.
Storage class	Storage class (TRGS 510): 11: Combustible Solids
Specific end use(s)	Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.
Advice on general occupational hygiene	Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.
Requirements for storage	Keep in cool and store under shade.

8. Exposure controls and personal protection

Exposure controls	Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Control parameters	Ingredients with workplace control parameters Contains no substances with occupational exposure limit values.
Engineering Control	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Eye/face 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).
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.
Respiratory protection	Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	For information regarding environmental exposure controls, see Section 6.

9. Physical and chemical properties

Physical state	Powder
Colour	Light yellow
Odour	Odourless
Odor Threshold	No data available
pH	6 (1 %(m), 20 - 25 °C)
Melting Point	45 - 46 °C
Boiling Point	> 400 °C
Flash Point	> 200 °C
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No data available
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	> 350 °C
Vapour pressure	0.0000045 Pa (20 °C)
Density	1.16 g/cm3 (20 °C)
Relative Density	No data available
Relative vapor density	No data available
Freezing point	No data available
Viscosity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	0.73 µg/l (20 °C)
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

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

Stability	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	Dust explosion hazard.
Conditions to avoid	Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.
Incompatible materials	Substances to avoid: strong oxidizing agents, acids, bases, strong acids, strong bases
Hazardous decomposition products	Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity	Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Experimental/calculated data: LD50 rat (oral): > 5,000 mg/kg LD50 rabbit (dermal): > 5,000 mg/kg
Skin corrosion/irritation	Remarks: No data available
Serious eye damage/eye irritation	Remarks: No data available
Respiratory or skin sensitization	Assessment of sensitization: Sensitization after skin contact possible. Experimental/calculated data: guinea pig: skin sensitizing (OECD Guideline 406)
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).
Carcinogenicity	The whole of the information assessable provides no indication of a carcinogenic effect.
Germ cell mutagenicity	Assessment of mutagenicity: The substance has no mutagenic activity (Ames Test). Experimental/calculated data: Ames-test negative (OECD Guideline 471)
Reproductive toxicity	The results of animal studies gave no indication of a fertility impairing effect.
Specific target organ toxicity - single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.
Special Remarks on other Toxi Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reation, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.
Endocrine disrupting properties	No data available

12. Ecological information

Bioaccumulative potential	Does not significantly accumulate in organisms. Bioconcentration factor: 89 - 190 (60 d), Cyprinus carpio (OECD Guideline 305 C)
Persistence and degradability	Assessment biodegradation and elimination (H2O): The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants. Elimination information: 5 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4- C) (aerobic, activated sludge, domestic, non-adapted) Assessment of stability in water: According to structural properties, hydrolysis is not expected/probable.
Toxicity to fish	LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203, static) The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The product has low solubility in the test medium. An aqueous dispersion has been tested.
Toxicity to daphnia and other aquatic invertebrates	Flow-through test EC50 - Ceriodaphnia dubia (water flea) - 0,035 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Flow-through test NOEC - algae - 0,002 mg/l - 7 Days Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: sodium hypochlorite solution
Toxicity to bacteria	Static test EC50 - activated sludge - 563 mg/l - 3 h (OECD Test Guideline 209) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium hypochlorite solution
Mobility in soil	Bioconcentration factor: 89 - 190 (60 d), Cyprinus carpio (OECD Guideline 305 C)
Results of PBT and vPvB assessment	According to Annex XIII 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	Adsorbable organically-bound halogen (AOX): This product contains no organically-bound halogen.
Other adverse effects	The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

13. Disposal considerations

Disposal methods	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated packaging	Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.
Waste treatment Method	Must be disposed of or incinerated in accordance with local regulations.

14. Transport information

UN number	ADR/RID:	IMDG:	IATA:
UN proper shipping name	ADR/RID:	IMDG:	IATA:
Transport hazard class(es)	ADR/RID:	IMDG:	IATA:
Packaging group	ADR/RID:	IMDG:	IATA:
Environmental hazards	ADR/RID: NO	IMDG: NO	IATA: NO
Further information	No data available		

15. Regulatory information

Inventory status	Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65.
Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
National legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ACUTE TOXIC : ENVIRONMENTAL HAZARDS
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	Chemical Safety Assessment performed

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.