



RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

RXSOL-81-8161-025

Antioxidant A 1076

Material Safety Data Sheet (MSDS)

1. Product and Company Identification

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Product Name	Antioxidant A 1076
Product Type	RXSOL-81-8161-025

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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2. Composition / Information on ingredients

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CAS Number	Content(W/W)	Chemical name
2082-79-3	80.0 - 90.0 %	Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,octadecyl ester
Proprietary Blend	10-20	Proprietary

3. Hazards Identification

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Emergency overview

CAUTION:

May cause sensitization by skin contact.

Inhalation may cause respiratory irritation.

Refer to MSDS Section 7 for Dust Explosion information.

State of matter: solid

Colour: white

Odour: odourless

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Irritation / corrosion:

Not irritating to the skin.

Chronic toxicity:

Carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Potential environmental effects

Aquatic toxicity:

No toxic effects occur within the range of solubility.

4. First Aid Measures

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General advice:	Immediately remove contaminated clothing.
If inhaled:	If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.
If on skin:	Wash affected areas thoroughly with soap and water. Seek medical attention.
If in eyes:	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.
If swallowed:	Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.
Note to physician	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting Measures

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Flash point:	273 °C (DIN 51584)
Flammability:	not highly flammable
Self-ignition temperature:	not self-igniting
Suitable extinguishing media:	dry powder, carbon dioxide, alcohol-resistant foam
Unsuitable extinguishing media for safety reasons:	water jet
Hazards during fire-fighting:	harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.
Protective equipment for fire-fighting:	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
Further information:	Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental Release Measures

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Personal precautions:

Avoid dust formation. Use personal protective clothing.

Environmental precautions :

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

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

7. Handling and Storage

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Handling

General advice :

Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion :

Avoid dust formation. Take precautionary measures against static discharges.

Storage

General advice :

Keep container tightly closed and dry; store in a cool place.

Storage stability :

Storage temperature: $\leq 35\text{ }^{\circ}\text{C}$

Temperature tolerance:

Protect from temperatures below: $0\text{ }^{\circ}\text{C}$

Protect from temperatures above: $40\text{ }^{\circ}\text{C}$

8. Exposure controls and personal protection

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Personal protective equipment:

Respiratory protection:	Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
Hand protection:	Chemical resistant protective gloves
Eye protection:	Safety glasses with side-shields.
Body protection:	Impermeable protective clothing
General safety and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Form:	Granules, fine
Odour:	Odourless
Colour:	white
pH value:	5.7 (1 %(m), 20 - 25 $^{\circ}\text{C}$) (as suspension)

Melting point:	50 - 55 °C
Boiling point:	not applicable
Vapour pressure:	26.6 Pa (250 °C)
Density:	1.02 g/cm ³ (25 °C)
Partitioning coefficient n-octanol/water (log Pow):	> 6 (20 - 25 °C)
% volatiles:	0.5 %
Solubility in water:	practically insoluble
Molar mass:	530.87 g/mol

10. Stability and reactivity

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Dust explosion class:	Dust explosion class 2 (Kst-value 200 up to 300 bar m s ⁻¹) (St2)
Conditions to avoid:	Avoid electro-static discharge.
Substances to avoid:	strong acids, strong bases, strong oxidizing agents
Hazardous reactions:	Dust explosion hazard.
Decomposition products:	Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.
Thermal decomposition:	> 350 °C
Oxidizing properties :	not fire-propagating

11. Toxicological information

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Acute toxicity:

Dermal:

Type of value: LD50

Species: rabbit

Value: > 2,000 mg/kg

Irritation / corrosion:

Skin:

Species: rabbit

Result: non-irritant

Eye:

Species: rabbit

Result: non-irritant

Species: cat

Result: non-irritant

Sensitization:

Species: guinea pig

Result: Non-sensitizing.

Species: human

Possible weak sensitizer.

Other Information:

Contact allergenic properties have not been observed in test animals (guinea pigs). In humans workroom temperatures of about 40°C and profuse sweating might exacerbate potential irritancy and rashes may develop.

12. Ecological information

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Fish:

Acute:

Fish/LC50 (96 h): > 100 mg/l

Aquatic invertebrates:

Acute:

Daphnia magna/EC50: > 100 mg/l

Aquatic plants:

Toxicity to aquatic plants:

Algae/EC50 (72 h): > 30 mg/l

Tested above maximum solubility. No toxic effects occur within the range of solubility. No effects at the highest test concentration.

Microorganisms:

Toxicity to microorganisms:

activated sludge/EC50 (3 h): > 100 mg/l

Degradability / Persistence:

Biological / Abiological Degradation:

Evaluation:

Moderately/partially biodegradable.

Other adverse effects:

The local regulations on waste-water treatment must be followed.

13. Disposal considerations

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Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

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Land transport:

USDOT

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

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Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category:

Sensitizer;

EPCRA 311/312 (Hazard categories):

Acute; Chronic

16. Other information

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