

1. Product and Company Identification

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Product Name ALUMINIUM OXIDE

Part Number RXSOL-19-6543-050

Company Details:....

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

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Substances

Synonyms	Alumina
Formula	Al ₂ O ₃
Molecular weight	101,96 g/mol
CAS-No	1344-28-1
EC-No.	215-691-6

No components need to be disclosed according to the applicable regulations.

3. Hazards Identification

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Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Label elements Not a hazardous substance or mixture.

Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

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Description of first aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment No data available

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

In a fire or if heated, a pressure increase will occur and the container may burst, with the

risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along

the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

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distance to a source of ignition and flash back.

Carbon oxides

Nitrogen oxides (NO_x)

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

spray to keep fire-exposed containers cool.Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

For personal protection see section 8.

Methods and materials for containment and cleaning up

No special environmental precautions required.

Reference to other sections

Sweep up and shovel. Keep in suitable, closed containers for disposal.

For disposal see section 13.

7. Handling and Storage

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Precautions for safe handling

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

Recommended storage temperature see product label. Tightly closed.

Hygiene measures

Recommended storage temperature see product label.

General industrial hygiene practice.

Conditions for safe storage, including any incompatibilities

For precautions see section 2.2.

Storage conditions

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class

Hygroscopic.

Specific end use(s)

Storage class (TRGS 510): 13: Non Combustible Solids

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

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Control parameters

Ingredients with workplace control parameters

Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove

removal technique (without touching glove's outer surface) to avoid skin contact

with this product. Dispose of contaminated gloves after use in accordance with

applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU)

2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which

differ from EN 374, contact the supplier of the EC approved gloves. This

recommendation is advisory only and must be evaluated by an industrial hygienist

and safety officer familiar with the specific situation of anticipated use by our

customers. It should not be construed as offering an approval for any specific use

scenario.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

No special environmental precautions required.

Body Protection

Respiratory protection

Control of environmental exposure

9. Physical and chemical properties

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Information on basic physical and chemical properties

Appearance	Form: solid
Color	Odorless
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	Melting point/range: 2.040 °C
Initial boiling point and boiling range	2.980 °C
Flammability (solid, gas)	May form combustible dust concentrations in air.
Upper/lower flammability or explosive limits	No data available
Flash point	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
	materials. Extremely flammable in the presence of the following materials or conditions: oxidizing
	materials.
pH	No data available
Viscosity	Viscosity, kinematic: No data available
	Viscosity, dynamic: No data available
Water solubility	Insoluble
Partition coefficient: n-octanol/water	No data available
Vapor pressure	1 hPa at 2.158 °C
Density	4,000 g/cm ³
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Other safety information	No data available

10. Stability and reactivity

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Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

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Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - male and female - > 10.000 mg/kg (OECD Test Guideline 401)
	LC50 Inhalation - Rat - male and female - 4 h - > 2,3 mg/l (OECD Test Guideline 403)
	Dermal: No data available

Skin corrosion/irritation	<p>Skin - Rabbit</p> <p>Result: No skin irritation - 24 h</p> <p>(OECD Test Guideline 404)</p>
Serious eye damage/eye irritation	<p>Eyes - Rabbit</p> <p>Result: No eye irritation</p> <p>(OECD Test Guideline 405)</p>
Respiratory or skin sensitization	<p>Draize Test - Guinea pig</p> <p>Result: Does not cause skin sensitization.</p> <p>- Mouse</p> <p>Result: Does not cause respiratory sensitization.</p>
Germ cell mutagenicity	<p>Test Type: Ames test</p> <p>Test system: Bacillus subtilis</p> <p>Result: negative</p> <p>Remarks: (IUCLID)</p>
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	
Endocrine disrupting properties	
Product	
Assessment	<p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>RTECS: BD1200000</p> <p>Cough, chest pain, Difficulty in breathing, Gastrointestinal disturbance</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Liver - Irregularities - Based on Human Evidence</p>

12. Ecological information

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Toxicity	No data available
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

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Waste treatment methods	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

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UN number	ADR/RID: IMDG: IATA:
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: IMDG: IATA:
Packaging group	ADR/RID: IMDG: IATA:
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	
Further information	Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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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.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. Other information

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Other Information	<p>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 we assume 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.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the</p>
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