

RIGICON

1. PRODUCT / COMPANY IDENTIFICATION

1.1 Product identifier

Commercial Product Name : **Rigicon**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Materials for use in technical applications

1.3 Identification of the company

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

2.2 Label elements

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

2.3 Other hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical characterization

Colloidal suspension of amorphous silica, stabilized in an acid medium.

Substance

Not applicable

3.2 Mixtures

Hazardous components

Non-hazardous ingredients

Chemical name	CAS-No. Registration number	Concentration (% w/w)
Synthetic Amorphous Silicon Dioxide (CAS 7631-86-9 / CAS 112926-00-8)	Not Assigned 01-2119379499-16-xxxx	30

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4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled:
fresh air.

In case of skin contact:
Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact:
Rinse out with plenty of water. Remove contact lenses.

If swallowed:
Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:
We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:
No information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Dry powder
Foam
Carbon dioxide (CO₂)
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters:
In the event of fire, wear self-contained breathing apparatus.

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Further information:

Suppress (knock down) gases/vapours/mists with a water spray jet.

6. FIREFIGHTING MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Environmental precautions:

No special precautionary measures necessary.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralising material.

Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling:

Observe label precautions.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Store in a polyolefine container. Do not store in or use iron or steel containers.

Further information on storage conditions:

Tightly closed. Do not freeze. Protect against frost. The product after freezing is no longer usable.

Risks from decomposition products: see section 10.3

Other data:

Storage period: 12 month

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Recommended storage temperature:
Recommended storage temperature see product label.

7.3 Specific end use(s)

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

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal protective equipment

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled and must meet the specifications of a standard EN/ISO/DIN. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye protection:

Safety glasses

Hand protection:

splash contact

Glove material:

Nitrile rubber

Glove thickness:

0,4 mm

Break through time:

> 10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example:KCL 730 Camatril® -Velours(splash contact);

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Protective measures:

Protective clothing

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Respiratory protection:
required when vapours/aerosols are generated.

Recommended Filter type:
Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

General advice:
No special precautionary measures necessary.

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Liquid
Colour	Milky white
Odour	Odourless
Odour Threshold	No information available.
pH	3,5 - 4,5 at 20 °C
Solidifying temperature	≥ 0 °C
Boiling point/boiling range	ca. 100 °C
Flash point	Not determined
Evaporation rate	No information available.
Flammability (solid, gas)	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	Similar to water
Relative vapour density	No information available.
Density	1,20 g/cm ³ at 20 °C
Solubility(ies)	No information available.
Water solubility	Miscible in all proportions
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	Not applicable
Decomposition temperature	No information available.
Viscosity, kinematic	No information available.
Explosive properties	No information available.
Oxidizing properties	Not applicable

9.2 Other data

Sublimation point	Not determined
Ignition temperature	Not applicable
Particle size	Ca. 50 nm
Burning number	Not applicable

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10: STABILITY AND REACTIVITY

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Hazardous reactions:

No information available

10.4 Conditions to avoid

Conditions to avoid:

Protect from frost.

10.5 Incompatible materials

Materials to avoid:

No information available

10.6 Hazardous decomposition products

In the event of fire: See section 5.

11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity:

No data available

Acute inhalation toxicity:

Acute toxicity estimate: > 5 mg/l

Acute dermal toxicity:

Acute toxicity estimate: > 2.000 mg/kg

Components:

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD

Result: non-irritant

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Serious eye damage/eye irritation

Product:

Species: Rabbit

Classification: No eye irritation

Method: OECD Test Guideline 405

Result: slight irritation

Remarks: rabbit eye

Components:

No data available

Respiratory or skin sensitisation

Product:

No data available

Components:

No data available

Germ cell mutagenicity

Product:

No data available

Components:

No data available

Carcinogenicity

Product:

This information is not available.

Components:

This information is not available.

STOT - single exposure

Product:

No data available

Components:

No data available

STOT - repeated exposure

Product:

No data available

Components:

No data available

Repeated dose toxicity

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Product:
No data available

Components:
No data available

Aspiration toxicity
Product:
No data available

Components:
No data available

Experience with human exposure

Product:
No data available

Components:
No data available

11.2 Other information

Product:
Handle in accordance with good industrial hygiene and safety practice.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:
No data available

12.2 Persistence and degradability

Product:
No data available

12.3 Bioaccumulative potential

Product:
Bioaccumulation:
Remarks: Not applicable

12.4 Mobility in soil

Product:
Mobility:
Remarks: Not applicable

Distribution among environmental compartments:
No data available

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Stability in soil:
No data available

12.5 Results of PBT and vPvB assessment

Product:

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.

12.6 Other adverse effects

Product:

Additional ecological information:

The product, since it is an inorganic, non-reducing type of substance, has neither a BOD nor a COD. No ecological problems are to be expected when the product is handled and used with due care and attention.

13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. TRANSPORT INFORMATION

Air transport(IATA)

14.1.-14.6:

Not dangerous goods

Sea transport(IMDG)

14.1.-14.6:

Not dangerous goods

Land transport(ADR/RID)

14.1.-14.6:

Not dangerous goods

15: REGULATORY INFORMATION

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

Regulation (EC) No 850/2004 on persistent organic pollutants:

Not applicable

REACH - List of substances subject to authorisation (Annex XIV):

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

Not applicable

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59):
Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals:
Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (A):
Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Storage class:
10 - 13

15.2 Chemical safety assessment

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

16: OTHER INFORMATION

Training advice

Provide adequate information, instruction and training for operators.
Key or legend to abbreviations and acronyms used in the safety data sheet

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECL - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program;

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NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

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