

## 1. Product and Company Identification

www.rxmarine.com

Product Name Starch Easy Iron A  
Part Number RXSOL-15-2725-005

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

Formula Fe  
Molecular weight 55,85 g/mol  
CAS-No. 7439-89-6  
EC-No. 231-096-4

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 3. Hazards Identification

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### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Flammable solids (Category 2), H228  
Self-heating substances and mixtures (Category 2), H252  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### Label elements

Hazard Statements H228 Flammable solid.  
H252 Self-heating in large quantities; may catch fire.

Precautionary Statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P235 Keep cool.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection/ hearing protection.

P403 + P235 Store in a well-ventilated place. Keep cool.

Supplemental Hazard Statements  
Hazard statement(s)  
Precautionary statement(s)  
Supplemental Hazard Statements  
Other hazards

None  
None  
None  
None

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

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

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

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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 needed

No data available

## 5. Fire-fighting Measures

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### Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

Unsuitable extinguishing media

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

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.

Iron oxides

Combustible.

Potential for spontaneous combustion.

Caution! in contact with water product releases:

Hydrogen

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

In the event of fire, wear self-contained breathing apparatus.

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

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.

#### **Advice for firefighters**

#### **Further information**

## **6. Accidental Release Measures**

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#### **Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **Environmental precautions**

Do not let product enter drains.

#### **Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **Reference to other sections**

For disposal see section 13.

## 7. Handling and Storage

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### Precautions for safe handling

#### Advice on safe handling

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.

#### Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

#### Specific end use(s)

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). Tightly fitting safety goggles

#### Skin protection

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 EN 16523-1 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: Chloroprene

Minimum layer thickness: 0,65 mm

Break through time: 480 min

Material tested: KCL 720 Camapren®

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 EN

16523-1 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: Latex gloves

Minimum layer thickness: 0,6 mm

Break through time: 60 min

Material tested: Lapren® (KCL 706 / Aldrich Z677558, Size M).

Flame retardant antistatic protective clothing.

Recommended Filter type: Filter A-(P3)

## Body Protection

### Respiratory protection

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.

Do not let product enter drains.

### Control of environmental exposure

## 9. Physical and chemical properties

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Appearance

Form: solid

Odor

Color: gray

Odor Threshold

Odorless

pH

Not applicable

Melting point/freezing point

No data available

Initial boiling point and boiling range

Melting point: 1.536 °C - lit.

Flash point

3.000 °C at 1.013 hPa - lit.

Evaporation rate

No data available

Flammability (solid, gas)

Lower explosion limit: 1,1 %(V)

Upper/lower flammability or explosive limits

86 °C - closed cup - DIN 51758

Vapor pressure

559 °C at 1.013 hPa

Vapor density

No data available

No data available

**materials. Extremely flammable in the presence of the following materials or conditions: oxidizing**

**materials.**

Relative density

No data available

Water solubility

Insoluble

Partition coefficient: n-octanol/water

No data available

Autoignition temperature

The substance or mixture is classified as self heating with the category 2.

Decomposition temperature

No data available

Viscosity

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

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Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	
Bulk density	3.000 - 4.000 kg/m <sup>3</sup>
Particle size	< 10 µm - Particle size

## 10. Stability and reactivity

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### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### Chemical stability

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

### Possibility of hazardous reactions

Violent reactions possible with:

ammonium compounds

Oxidizing agents

halogen-halogen compounds

nitryl compounds

nitrates

Fluorine

oils

hydrogen peroxide

hydrogen sulphide

Acetaldehyde

Generates dangerous gases or fumes in contact with:

Water

acids

Risk of explosion with:

ammonium nitrate

Ammonium peroxodisulfate

potassium dichromate

perchlorates

Air

nitrates

performic acid

chlorine acid

oils

with

Water

Risk of ignition or formation of inflammable gases or vapours with:

Peroxides

nitryl compounds

hydrogen sulphide

nitrogen dioxide

hydrogen peroxide

halogens

oils

with

Air

Exposure to moisture.

Heat, flames and sparks.

no information available

Strong acids

In the event of fire: see section 5

**Conditions to avoid**

**Incompatible materials**

**Hazardous decomposition products**

## 11. Toxicological information

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### Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 30.000 mg/kg

Remarks: (RTECS)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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

Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma., Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiologic impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance. To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

## 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.
Other adverse effects	No data available .

## 13. Disposal considerations

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Waste treatment methods	
Product	See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## 14. Transport information

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UN number	ADR/RID:3089 IMDG:3089 IATA: 3089
UN proper shipping name	ADR/RID: METAL POWDER, FLAMMABLE, N.O.S.  IMDG: METAL POWDER, FLAMMABLE, N.O.S.  IATA: Metal powder, flammable, n.o.s.
Transport hazard class(es)	ADR/RID: 4.1 IMDG: 4.1 IATA:4.1
Packaging group	ADR/RID:III IMDG:III IATA:III
Environmental hazards	ADR/RID: No IMDG: No IATA: No
Special precautions for user	No data available

## 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.
Other regulations	Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

## 16. Other information

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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 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
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