1. Product and Company Identifaction

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Porduct Name TUNGSTEN POWDER 99%
Part Number RXSOL-60-6605-793

Company Details:

RX MARINE INTERNATIONAL 105, A wing , BSEL , TECH PARK. VASHI ,NEW BOMBAY 400703 INDIA

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

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 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

2. Composition / Information on ingredients

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 Chemical Name
 Cas No
 EC No
 Whight
 Formula

 Tungsten
 7440-33-7
 231-143-9
 W
 183,84 g/mol

3. Hazards Identification

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Signal Word Warning

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

Precautionary statements P235 Keep cool. P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection. P403 + P235 Store in a well-ventilated place. Keep cool. P407 Maintain air gap between stacks or pallets. P420 Store

separately.

Classification of the substance or mixture Self-heating substances and mixtures (Category 2), H252

Supplemental Hazard Statements None

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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General advice Consult a physician. Show this material safety data sheet to the doctor in

attendance.

If inhaled After inhalation: fresh air.

Rinse thoroughly with plenty of water for at least 15 minutes and consult

a physician.

Swallowed After swallowing: make victim drink water (two glasses at most). Consult

doctor if feeling unwell.

Skin Contact In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

Most important symptoms and effects, both acute and delaye

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

Eye Contact

No data available

5. Fire-fighting Measures

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Water Foam Carbon dioxide (CO2) Dry powder Suitable extinguishing media

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

given.

Special hazards arising from the substance or mixture Nature of decomposition products not known. Combustible. Development

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

Prevent fire extinguishing water from contaminating surface water or the

ground water system.

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

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

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.

Personal Protection

Further information

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

Environmental Precaution

Prevent further leakage or spillage if safe to do so. Do not let product

Methods and materials for containment and cleaning

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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Advice of safe handling

For precautions see section 2.2. Storage conditions

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

Storage class For precautions see section 2.2.

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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Eye/face protection

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

Body Protection

protective clothing

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: butyl-rubber Minimum layer thickness: 0,3 mm Break through time: 480 min tested:Butoject® (KCL 897 / Aldrich Z677647, Size M) Splash contact Material: Chloroprene Minimum layer thickness: 0,6 mm Break through time: 30 min Material tested:Camapren® (KCL 722 / Aldrich Z677493, 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.

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure Do not let product enter drains.

9. Physical and chemical properties

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Physical state Powder Colour gray

Odour No data available Odor Threshold Not Applicable рΗ No data available

Melting Point Melting point/range: 3.410 °C - lit.

Boiling Point 5.660 °C - lit. Flash Point Not applicable **Evaporation Rate** Not Applicable

Flammability (solid, gas) The product is not flammable.

No Data Available Explosive limits Upper/lower flammability or explosive limits No data available

Autoignition temperature Self-heating in large quantities; may catch fire.

Decomposition temperature No data available No data available Vapour pressure Viscosity No data available Density 19,3 g/cm3 at 25 °C - lit

Relative Density No data available

Partition coefficient Not applicable for inorganic substances

Explosive properties No data available Solubility slightly soluble Particle characteristics No data available

10. Stability and reactivity

Chemical stability

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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.

The product is chemically stable under standard ambient conditions (room

temperature).

Possibility of hazardous reactions No data available

Conditions to avoid no information available Incompatible materials Strong oxidizing agents, Halogens

In the event of fire: see section 5 Hazardous decomposition products

11. Toxicological information

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Acute toxicity

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization

Carcinogenicity

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

Additional Information

LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 5,4 mg/l - aerosol (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404) Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

No data available

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negativeTest Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Sodium tungstate

No data available
No data available

: 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.

12. Ecological information

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Persistence and degradability

Toxicity to fish

Toxicity to daphnia and other aquatic invertebrates

Toxicity

Toxicity to bacteria

Toxicity to algae

Mobility in soil

Results of PBT and vPvB assessment

Endocrine disrupting properties

Other adverse effects

No data available

Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203)

static test EC50 - Daphnia magna (Water flea) - > 163 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products)

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h

static test EC50 - activated sludge - > 1.000 mg/l - 30 min (OECD Test

Guideline 209) static test ErC50 - Pseudokirchneriella subcapitata - 52,9 mg/l - 72 h

(OECD Test Guideline 201)

No data available

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.

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.

No data available.

13. Disposal considerations

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Waste treatment Method No data available

14. Transport information

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UN number

UN proper shipping name

Transport hazard class(es)
Packaging group
Environmental hazards

Special precautions for user

Further information

ADR/RID:3189 IMDG:3189 IATA: 3189

ADR/RID: METAL POWDER, SELF-HEATING, N.O.S. (Tungsten powder) IMDG: METAL POWDER, SELF-HEATING, N.O.S. (Tungsten powder) IATA: Metal powder, self-heating, n.o.s. (Tungsten

powder)

ADR/RID: 4.2 IMDG: 4.2 IATA:4.2 ADR/RID: II IMDG: II IATA:II ADR/RID: No IMDG: No IATA: No

Tunnel restriction code: (D/E)

No data available

15. Regulatory information

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

Other regulations

Chemical Safety Assessment

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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.

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 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.

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