

## XI'AN FUNCTION MATERIAL GROUP CO., LTD

## Material Safety Data Sheet Rubidium

## 1. Product and Company Identification

Trade Name: Rubidium Chemical Formula: Rb

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

## 2. Hazards Identification

Signal Word: D







**Hazard Statements:** 

H260: In contact with water releases flammable gases which may ignite

spontaneously

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage H335: May cause respiratory irritation

**Precautionary Statements:** 

P223: Keep away from any possible contact with water, because of

violent reaction and possible flash fire

P231+P232: Handle under inert gas. Protect from moisture P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash face, hands and any exposed skin thoroughly after

handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician

P335+P334: Brush off loose particles from skin. Immerse in cool

water/wrap in wet bandages

P363: Wash contaminated clothing before reuse

P370+P378: In case of fire: Use CO<sub>2</sub>, dry sand, dry chemical or

alcohol-resistant foam for extinction

P402+P404: Store in a dry place. Store in a closed container

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 3 Physical: 3

3. Composition

Chemical Family: Metal

Additional Names: Rubidium Metal

Rubidium (Rb)

Skin:

Spec. Fire Fighting Procedure:

Percentage: 100 wt% CAS #: 7440-17-7 EC #: 231-126-6

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek medical attention.

Ingestion: Rinse mouth with water. Never give anything by mouth to an

unconscious person. Do not induce vomiting. Seek medical attention.

Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Flammable as powder

Extinguishing Media: Do not use water for metal fires. Use alcohol-resistant foam, dry

chemical, carbon dioxide or other approved class D extinguishers. Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for

clothing to prevent contact with skill and eyes. See section

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Take care not to raise dust

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

**Handling Conditions:** Wash thoroughly after handling.

**Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None

**Respiratory Protection:** Use a recommended dust respirator or mask. Only use equipment tested

and approved under appropriate government standards.

Protective Gloves: Nitrile or rubber gloves Eye Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long **Body Protection:** 

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A Water Solubility: N/A **Boiling Point:** 688 °C 38.9 °C **Melting Point:** Flash Point: N/A Autoignition Temperature: N/A Density:

1.532 g/cc

Molecular weight: 85.47 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Oxidizing agents, Water, Sulphur compounds, Halogens,

Chlorinated solvents

Exposure to moisture and water. Reacts violently with water **Incompatible Conditions:** 

**Hazardous Decomposition Products:** Rubidium oxides

11. Toxicological Information

Potential Health Effects:

Eves: Causes serious damage Skin: Causes severe burns

Ingestion: Causes severe swelling, severe damage to delicate tissues

Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: Causes burns by all exposure routes.

**Aggravated Medical Conditions:** 

Median Lethal Dose: LD50 Intraperitoneal - Mouse - 1,200 mg/kg

Carcinogen: N/A

12. Ecological Information Aquatic Toxicity: May cause long-term adverse effects Persistent Bioaccumulation Toxicity: May persist Very Persistent, Very Bioaccumulative: N/A Notes: N/A 13. Disposal Considerations Dispose of in accordance with local, state, national, and international regulations. 14. Transportation Data Hazardous: Hazardous as powder only DANGEROUS **Hazard Class:** 4.3 Dangerous when wet materials Packing Group: UN1423 UN Number: Proper Shipping Name: Rubidium 15. Regulatory Information Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 05/29/2018