

## Safety Data Sheets

### 1. Identification

Product name :Rubidium, standard solution 1000mg/L  
Name of supplier :JUNSEI CHEMICAL CO., LTD.  
Address :1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan  
Division :Quality Assurance Department  
Phone :+81-48-986-6161  
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E-mail :shiyaku-t@junsei.co.jp  
Product code(SDS NO) :85067jis\_E-1

### 2. Hazards identification

GHS classification and label elements of the product  
GHS classification  
(Note) GHS classification without description : Not applicable/Out of classification/Not classifiable

### 3. Composition/information on ingredients

Substance/Preparation :Preparation

Ingredient name:Rubidium chloride  
content(%):ca. 0.1 (as Rb)  
Chemical formula:ClRb  
CAS No.:7791-11-9  
MW:120.92  
ECNO:232-240-9

Ingredient name:Water  
content(%):Residual quantity of the ingredient mentioned above.  
Chemical formula:H<sub>2</sub>O  
CAS No.:7732-18-5  
MW:18.02  
ECNO:231-791-2

### 4. First-aid measures

#### IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

#### IF ON SKIN(or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation or rash occurs: Get medical advice/attention.

#### IF IN EYES :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### IF SWALLOWED

Rinse mouth.

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Call a POISON CENTER or doctor/physician if you feel unwell.

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#### 5. Fire-fighting measures

##### Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

##### Specific hazards arising from the chemical

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

##### Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear cold insulating gloves/face shield/eye protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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#### 6. Accidental release measures

##### Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

##### Environmental precautions

Avoid release to the rivers, lakes, ocean, groundwater.

##### Methods and materials for neutralization, containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

##### Preventive measures for secondary accident

Collect spillage.

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#### 7. Handling and storage

##### Precautions for safe handling

###### Preventive measures

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

##### Exhaust/ventilator

Exhaust/ventilator should be available.

##### Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, vapor, mist, or gas.

##### Safety Measures/Incompatibility

Wear protective gloves, protective clothing or face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

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

###### Recommendation for storage

Keep cool . Protect from sunlight.

Store in well-ventilated place. Keep container tightly closed.

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## 8. Exposure controls/personal protection

### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

### Protective equipment

#### Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

#### Hand protection

Wear protective gloves.

#### Eye protection

Wear eye/face protection.

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## 9. Physical and Chemical Properties

### Physical properties

Appearance :liquid

Color :colorless-clear

Odor :None

pH :Neutral

### Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature data N.A.

Explosions data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density data N.A.

### Solubility

Solubility in water :miscible

n-Octanol /water partition coefficient data N.A.

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## 10. Stability and Reactivity

### Stability

Stable under normal storage/handling conditions.

### Conditions to avoid

Contact with incompatible materials.

Heat.

### Hazardous decomposition products

Chloride.

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## 11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Teratogenic effects data available

No Carcinogenic effects data available

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No Toxicity for reproduction data available  
No Delayed/chronic effects from short/long-term exposure data available  
No Aspiration hazard data available

## 12. Ecological Information

Ecotoxicity  
No Aquatic toxicity data available  
No Persistence and degradability data available  
No Bioaccumulative potential data available

## 13. Disposal Considerations

Disposal methods  
Dispose of contents/container in accordance with local/national regulation.

## 14. Transport Information

UN No, UN CLASS  
Not applicable to UN NO.

## 15. Regulatory Information

The product is not applicable to GHS classifications.  
US major regulations  
TSCA  
Water; Rubidium chloride  
Other regulatory information  
We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.  
Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.  
Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

## 16. Other information

Reference Book  
Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2014 TLVs and BEIs. (ACGIH)  
<http://monographs.iarc.fr/ENG/Classification/index.php>  
Supplier's data/information  
Chemical Risk Information Platform (CHRIP)(NITE) <http://www.safe.nite.go.jp/japan/db.html>  
GHS Classification Guidance for Enterprises 2013 Revised Edition (August, 2013,METI)

### Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this



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Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data