

Version 1.3 Revision Date 07/29/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Rubidium Chloride, Enriched Rubidium

Chemical Formula RbCl
Molecular Weight 120.92
CAS No. 7791-11-9
EINECS No. 232-240-9
Supplier Address* ISOFLEX USA
PO Box 29475

San Francisco CA 94129

United States

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Emergency Phone Number Infotrac/ +1 800-535-5053

(both supplier and

manufacturer) *May include subsidiaries or affiliate companies/divisions

Email jusa@isoflex.com
Website www.isoflex.com
Preparation Information ISOFLEX USA

Product Safety +1 415-440-4433

2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: White crystalline powder

Caution! Hygroscopic. The toxicological properties of this material have not been fully investigated. This substance has caused adverse reproductive and fetal effects in animals. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: No data found.

NFPA Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 0 Flammability = 0 Reactivity = 0



HMIS Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 1 Flammability = 0 Physical Hazard = 0

HEALTH HAZARD	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

Potential Health Effects

Eye May cause eye irritation

Skin May cause skin irritation

Ingestion Ingestion Ingestion of large amounts may cause gastrointestinal irritation. The

toxicological properties of this substance have not been fully

investigated.

Inhalation Dust is irritating to the respiratory tract. The toxicological properties of

this substance have not been fully investigated.

Chronic No information found

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Rubidium Chloride

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4. FIRST AID MEASURES

Eye Exposure Flush eyes with plenty of water for at least 15 minutes, occasionally

lifting the upper and lower eyelids. Get medical aid.

Dermal Exposure Get medical aid. Flush skin with plenty of soap and water for at least 15

minutes while removing contaminated clothing and shoes. Wash clothing

before reuse.

Oral Exposure Never give anything by mouth to an unconscious person. Get medical

aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and

drink 2-4 cupfuls of milk or water.

Inhalation Exposure Remove from exposure to fresh air immediately. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician Treat symptomatically.

5. FIREFIGHTING MEASURES

Explosion Limits, Lower

General Information As in any fire, wear a self-contained breathing apparatus in pressure-

demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution

water may cause pollution.

Not available

Autoignition Temp
Not applicable
Flash Point
Not applicable

Explosion Limits, Upper Not available

chemical, carbon dioxide, or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions Do not let product enter drains.

Methods for Cleaning Up Vacuum or sweep up material and place into a suitable disposal

container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation.

7. HANDLING AND STORAGE

Handling Wash thoroughly after handling. Use with adequate ventilation. Minimize

dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage Store in a tightly closed container. Store in a cool, dry, well-ventilated

area away from incompatible substances. Store protected from moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower. Use adequate ventilation to keep

airborne concentrations low.

Personal Protective Equipment

Eyes Wear appropriate protective eyeglasses or chemical safety goggles as

described by OSHA's eye and face protection regulations in 29 CFR

1910.133 or European Standard EN166.

Skin Wear appropriate protective gloves to prevent skin exposure.

Clothing Wear appropriate protective clothing to prevent skin exposure.

Respirators Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Always use a NIOSH or European Standard

EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Solid

Form Crystalline powder

Color White

Odor Not available

Safety Data

pH: Not available Solubility in water: 910 g/l (20 c) in water Vapor Pressure: Not applicable Boiling Point: 1390 °C @ 760.00 mm Hg

Vapor Density: Not available Freezing/Melting Point: 718 °C
Evaporation Rate: Not applicable Viscosity: Not available
Molecular Formula: RbCl Specific Gravity/Density: 2.8000g/cm³

Molecular Weight: 120.92

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal temperatures and pressures

Conditions to Avoid Incompatible materials, dust generation, excess heat, exposure to moist

air or water

Incompatible Materials Moisture

Hazardous Decomposition

Products

Irritating and toxic fumes and gases, oxides of rubidium

Hazardous Polymerization Has not been reported

11. TOXICOLOGICAL INFORMATION

 RTECS No.
 VL8575000

 CAS No.
 7791-11-9

 LD50/LC50
 Not available

Carcinogenicity

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology
No information available
Teratogenicity
No information available
Reproductive Effects
No information available
No information available
Mutagenicity
No information available

Other Studies See actual entry in RTECS for complete information

12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability

Bioaccumulative Potential

Mobility in Soil

PBT and vPvB Assessment

Other Adverse Effects

No data available

No data available

No data available

13. DISPOSAL CONSIDERATIONS

Product Chemical waste generators must determine whether a discarded

chemical is classified as a hazardous waste. US EPA guidelines for the

classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

Contaminated Packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight

15. REGULATORY INFORMATION

OSHA Hazards No known OSHA hazards

SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

SARA 311/312 Hazards No SARA 311/312 hazards

Massachusetts Right to Know

Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know

Components

Rubidium chloride / CAS No. 7791-11-9

New Jersey Right tTo Know

Components

Rubidium chloride / CAS No. 7791-11-9

California Prop. 65 Components This product does not contain any chemicals known to the State of

California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Prepared By

ISOFLEX USA PO Box 29475

San Francisco CA 94129

United States

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Revision Number 2

Revision Note Required format update

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

ALARA As Low As Is Reasonably Achievable

AMU Atomic Mass Unit

ANSI American National Standards Institute

BLS Basic Life Support
CAM Continuous Air Monitor

CAS Chemical Abstracts Service (division of the American Chemical Society)

CEN European Committee for Standardization

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CLP Classification, Labelling and Packaging (European Union)

CPR Controlled Products Regulations (Canada)

CWA Clean Water Act (USA)

DAC Derived Air Concentration (USA)

DOE United States Department of Energy (USA)
DOT United States Department of Transportation (USA)

DSL Domestic Substances List (Canada) EC50 Half Maximal Effective Concentration

EINECS European Inventory of Existing Commercial Chemical Substances

EHS Environmentally Hazardous Substance

ELINCS European List of Notified Chemical Substances

EMS Emergency Response Procedures for Ships Carrying Dangerous Goods

EPA Environmental Protection Agency (USA)

EPCRA Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986

GHS Globally Harmonized System

HMIS Hazardous Materials Identification System (USA) IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Containers

ICAO International Civil Aviation Organization IDLH Immediately Dangerous to Life or Health

IMDG International Maritime Code for Dangerous Goods

LC50 Lethal concentration, 50 percent

LDLO Lethal dose, 50 percent LDLO Lethal Dose Low

LOEC Lowest-Observed-Effective Concentration

MARPOL International Convention for the Prevention of Pollution from Ships

MSHA Mine Safety and Health Administration (USA)

NCRP National Council on Radiation Protection & Measurements (USA)

NDSL Non-Domestic Substances List (Canada)
NFPA National Fire Protection Association (USA)

NIOSH National Institute for Occupational Safety and Health (USA)

NOEC No Observed Effect Concentration

N.O.S. Not Otherwise Specified

NRC Nuclear Regulatory Commission (USA)
NTP National Toxicology Program (USA)

OSHA Occupational Safety and Health Administration (USA)
PBT Persistent Bioaccumulative and Toxic Chemical

PEL Permissible Exposure Limit
PIH Poisonous by Inhalation Hazard

RCRA Resource Conservation and Recovery Act (USA)

RCT Radiation Control Technician

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID Regulations Concerning the International Transport of Dangerous Goods by Rail

RTECS Registry of Toxic Effects of Chemical Substances

SARA Superfund Amendments and Reauthorization Act (USA)

TDG Transportation of Dangerous Goods (Canada)

TIH Toxic by Inhalation Hazard
TLV Threshold Limit Value
TPQ Threshold Planning Quantity
TSCA Toxic Substances Control Act
TWA Time Weighted Average
UN United Nations (Number)
VOC Volatile Organic Compound

vPvB Very Persistent Very Bioaccumulative Chemical

WGK Wassergefährdungsklassen (Germany: Water Hazard Classes)

WHMIS Workplace Hazardous Materials Information System

^{*}One or more of the above-listed items may not appear in this document.

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