

# **SAFETY DATA SHEET**

Version 6.4 Revision Date 04/24/2025 Print Date 04/25/2025

#### **SECTION 1. IDENTIFICATION**

#### 1.1 Product identifiers

Product name : Rubidium sulfate

Product Number : 229830 Brand : Aldrich CAS-No. : 7488-54-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

## 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### Other hazards

None known.

#### **GHS label elements**

Not a hazardous substance or mixture.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

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Millipore SiGMa

## Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Rubidium sulphate	7488-54-2*	>= 90 - <= 100	-

<sup>\*</sup> Indicates that the identifier is a CAS No.

## **SECTION 4. FIRST AID MEASURES**

General advice : Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Move out of dangerous area.

If inhaled : If breathed in, move person into fresh air.

If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact : Wash off with soap and plenty of water.

Consult a physician.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : Never give anything by mouth to an unconscious

person.

Rinse mouth with water. Consult a physician.

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

Protection of first-aiders : For personal protection see section 8.

Notes to physician : No data available

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide.

Hazardous combustion

products

: Sulfur oxides

Rubidium oxides

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Specific extinguishing

methods

: No data available

Further information

: No data available

Special protective equipment for fire-

fighters

: Wear self-contained breathing apparatus for

firefighting if necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Avoid dust formation.

Avoid breathing vapors, mist or gas.

Avoid breathing dust.

Advice for emergency responders: For personal protection see section 8.

Environmental precautions

: Do not let product enter drains.

Methods and materials for containment and

cleaning up

: Pick up and arrange disposal without creating dust.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places

where dust is formed.

Advice on safe handling : Avoid formation of dust and aerosols.

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Conditions for safe

storage

: Keep container tightly closed in a dry and well-

ventilated place.

Storage class : 11, Combustible Solids

Recommended storage

temperature

: Recommended storage temperature see product label.

Further information on

storage stability

: hygroscopic

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#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : No data available

## Personal protective equipment

Respiratory protection : Respiratory protection is not required. Where

protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

### Hand protection

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.11 mm
Protective index : Full contact

Manufacturer : Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.11 mm
Protective index : Splash contact

Manufacturer : Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Manufacturer : data source: KCL GmbH, D-36124 Eichenzell, phone

+49 (0)6659 87300, e-mail sales@kcl.de, test

method: EN374

Remarks : 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.

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

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.

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Eye protection : Use equipment for eye protection tested and

approved under appropriate government standards

such as NIOSH (US) or EN 166(EU).

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances,

and to the specific work-place.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures : Handle in accordance with good industrial hygiene

and safety practice.

Wash hands before breaks and at the end of

workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Color : white

Odor : No data available

Odor Threshold : No data available pH : No data available

Melting point : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Upper explosion limit / Upper flammability limit

: No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

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Relative vapor density : No data available

Relative density : No data available

Density : 3.613 g/mL (77 °F / 25 °C)

Method: lit.

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature

: No data available

: No data available Viscosity, dynamic

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : No data available

: No data available Oxidizing properties

Molecular weight : 267.00 g/mol

Particle characteristics

: No data available Particle size

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : Strong oxidizing agents

products

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

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Acute toxicity estimate Oral - 4,594 mg/kg

(Calculation method)

LD50 Oral - Rat - 4,594 mg/kg

Remarks: Peripheral Nerve and Sensation: Spastic paralysis with or without sensory change.

Behavioral: Somnolence (general depressed activity). Behavioral: Convulsions or effect on seizure threshold.

Inhalation: No data available Dermal: No data available

No data available

# **Skin corrosion/irritation** Remarks: No data available

# Serious eye damage/eye irritation

Remarks: No data available

## Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

#### Reproductive toxicity

No data available 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

# 11.2 Additional Information

RTECS: WS8350000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Components:** 

Rubidium sulphate:

Toxicity to fish : Remarks: No data available

Persistence and degradability

**Components:** 

Rubidium sulphate:

Biodegradability : Remarks: No data available

**Bioaccumulative potential** 

**Components:** 

Rubidium sulphate:

Bioaccumulation : Remarks: No data available

Mobility in soil

**Components:** 

Rubidium sulphate:

Stability in soil : Remarks: No data available

Other adverse effects

**Components:** 

Rubidium sulphate:

Additional ecological

information

: No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Offer surplus and non-recyclable solutions to a

licensed disposal company.

Contaminated packaging : Dispose of as unused product.

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#### **SECTION 14. TRANSPORT INFORMATION**

## **International Regulations**

#### **IATA-DGR**

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

## **National regulation**

#### 49 CFR Road

Not regulated as a dangerous good

Poison Inhalation Hazard : No

## Special precautions for user

Remarks : Not classified as dangerous in the meaning of

transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
COMBONETICS	LCA3-110.	

**SARA 311/312** 

Hazards

: Chronic Health Hazard

SARA 313 : 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.

#### **US State Regulations**

#### **Massachusetts Right To Know**

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

#### Pennsylvania Right To Know

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# **New Jersey Right To Know**

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## California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Temperature; SARA Decomposition Superfund Amendments Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United

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States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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