

MATERIAL SAFETY DATA SHEET

According to EU Regulation No. 2015/830



Version: 2
Date of Issue: 12.04.2016
Revision Date: 12.04.2016

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the product

Substance Name: **5-Carboxy-X-rhodamine (5-ROX)**
Catalogue No.: F-0109
REACH Registration No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS No.: 216699-35-3

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

Identified use: Manufacture of substances, Laboratory chemical
Uses advised against: Not known.

1.3 Detail of the supplier of the safety data sheet

Company: emp Biotech GmbH
Robert-Roessle-Str. 10
D-13125 Berlin
Telefon: +49-30-9489-2201 (Monday-Friday, 9:00 am-5:00 pm)
Telefax: +49-30-9489-3201
E-Mail: info@empbiotech.com

1.4 Emergency Number

INFOTRAC: +1-352-323-3500 (Phone) or in the **US 800-535-5053** (toll-free), 24 hours/day, 7 days/week

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

<i>Hazard classes and Hazard categories</i>	<i>Hazard Statements</i>
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335

(For the full text of the listed hazard classes, hazard categories and hazard statements see section 16)

2.2 Label elements

Pictograms



GHS07

Signal Word

Warning

Hazard Statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 IF ON SKIN: Wash with soap and water.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Supplemental Hazard information (EU)

None

2.3 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Main component of the substance

Substance Name: 5-Carboxy-X-rhodamine
Synonyms: 5-ROX
Formula: C₃₃H₃₁N₂O₅Cl (Hill)
Molecular Weight: 571.1 g/mol
REACH Registration No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS No.: 216699-35-3

Hazardous ingredients

Component	Classification	Concentration
5-Carboxy-X-rhodamine	Skin Irrit. 2; H315 Eye Irrit. 2; H319	<= 100 %
CAS-No. 216699-35-3	STOT SE 3; H335	

Impurities, stabilizing additives or individual constituents

No components need to be disclosed according to the applicable regulations.

(For the full text of the listed hazard classes and hazard categories, hazard statements and hazard symbol code(s) see section 16)

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice:

Immediately remove any clothing soiled by the product. If symptoms persist, consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation:

Supply fresh air. If not breathing, give artificial respiration and call for a doctor immediately.

After skin contact:

Remove contaminated clothing. Wash off with soap and plenty of water. If symptoms persist, consult a physician.

After eye contact:

Rinse out with plenty of water with the eyelid held wide open (≥15 minutes). If symptoms persist, call an ophthalmologist!

After swallowing:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Extinguishing media not to be used

No data available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Hydrochloric acid

5.3 Advice for firefighters

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus. In order to avoid skin contact, keep a safe distance and wear suitable protection clothing. Mouth respiratory protective device. Wear self-contained respiratory protective device. Wear fully protective suit.

5.4 Additional information

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid substance contact. Do not inhale vapors, mist or gas. Ensure supply of fresh air in enclosed rooms. Wear protective clothing and respiratory protection.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Prevent seepage into sewage system, workpits and cellars. Do not allow to penetrate the ground/soil.

6.3 Methods and materials for containment and cleaning up

Do not let product enter drains. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Wear protective gloves/clothing and eye/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed.

Recommended storage temperature: -20 °C.

Handle and store under inert gas. Protect material from light, especially in solution!

7.3 Specific end uses

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No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No components with workplace control parameters.

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protection equipment

Ensure that eyewash stations and safety showers are close to the workstation location. Use with local exhaust ventilation. Prevent vapor buildup by providing adequate ventilation during and after use. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type P1 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand protection: Solvent-resistant gloves. Gloves must be inspected prior to use. Replace when worn. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Due to missing tests no recommendation to the glove material can be given for the product.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE 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.

Skin and body protection: Wear as appropriate: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Do not swallow. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

- | | |
|-------------------------------|-------------------|
| a) Physical state: | dark violet solid |
| b) Odour: | no data available |
| c) Odour Threshold: | no data available |
| d) pH value: | no data available |
| e) Melting point / range: | no data available |
| f) Boiling point: | no data available |
| g) Flash point: | no data available |
| h) Evaporation rate: | no data available |
| i) Flammability (solid, gas): | no data available |
| j) Explosion limits: | no data available |
| k) Vapour pressure: | no data available |

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- l) Vapour density: no data available
- m) Relative density (20°C): no data available
- n) Solubility in water: no data available
- o) Partition coefficient: no data available
n-octanol/water
- p) Autoignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: no data available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Exposure to light, air and moisture over prolonged periods.

10.5 Incompatible materials

Bases, Oxidizing agents, Reducing agents, Humidity, Air

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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Reproductive toxicity

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.

Potential health effects

Inhalation May cause respiratory irritation.

Ingestion No data available.

Skin Causes skin irritation.

Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure

Symptoms unknown.

Other information

RTECS numbers (NIOSH): No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

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ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2 UN proper shipping name

ADR/RID: -
IMDG: -
IATA: -

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

ADR/RID: - IMDG: - IATA: -

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of EU Regulation No. 2015/830.

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

No data available.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Used abbreviations and acronyms can be looked up under www.wikipedia.de

Full text of the listed hazard classes and hazard categories in section 2 to 15

Skin Irrit. 2	Skin Irritation, Category 2
Eye Irrit. 2	Eye Irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Additional information

This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. emp Biotech GmbH shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.