

SAFETY DATA SHEET

RM-82

Revision Date 15/07/2022



1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name

RM-82

Details of the supplier of the safety data sheet

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2 - HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin sensitization (Category 1), H317

Short-term (acute) aquatic hazard (Category 3), H402

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statements

H317 - May cause an allergic skin reaction.

H402 - Harmful to aquatic life.

Precautionary statements

Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash skin thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves / protective clothing / eye protection / face protection.

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

Storage

P403 + P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Dispose of contents and container to an approved waste disposal plant.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: 2-Methyl-1,4-phenylene bis(4-((6-(acryloyloxy)hexyl)oxy)benzoate)

Molecular Formula: C₃₉H₄₄O₁₀

Molecular Weight: 672.77 g/mol

CAS#: 125248-71-7

EC-No.: 419-310-6

Component	Classification	Concentration
Reactive acryloyloxy mesogen MPBIS[AHB]		
	Skin Sens. 1; Aquatic Acute 3; H317, H402	<= 100%

4 - FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area. Remove contaminated clothing.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Treat symptomatically. If symptoms persist, call a physician.

In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Wash contaminated clothing before re-use. Get medical attention.

Thoroughly clean shoes before re-use. If necessary, call a poison center or physician.

In case of eye contact

Remove contact lenses, if present and easy to do. Immediately flush eyes with plenty of water.

Continue to rinse for at least 20 minutes. Get medical attention.

If swallowed

DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of any immediate medical attention and special treatment needed

No data available.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water, Foam, Carbon dioxide, Dry powder.

Unsuitable extinguishing media

No data available.

Special hazards during fire fighting

No data available.

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous thermal decomposition products

No data available.

Special protective actions for fire-fighters

No data available.

Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus.

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

7 - HANDLING AND STORAGE

Personal precautions

Safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust. Do not swallow.

Ensure adequate ventilation. Wash thoroughly after handling.

Keep away from sources of ignition - No smoking. Keep away from fire, sparks, and heated surfaces.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled,

stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store locked up.

Other advice

No further information available.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Appropriate techniques should be used to remove potentially contaminated clothing.

Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NOISH (US) or EN 166(EU).

Skin protection

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.

Body protection

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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: powder
Color: white
Odor: odorless
Odor threshold: no data available

Safety data

pH: no data available
Melting point: 75°C
Initial boiling point and boiling range: no data available
Flash point: no data available
Relative density: no data available
Viscosity: Kinematic no data available
Ignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Partition coefficient(n-octanol/water):log Pow: > 6.2 at 30 °C (86 °F) - Potential bioaccumulation
Water solubility: no data available
VOC (w/w): no data available

10 - STABILITY AND REACTIVITY

Storage stability

No data available.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Possibility of hazardous reactions

Strong oxidizing agents.

Conditions to avoid

No data available.

Incompatible materials

No data available.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - no data available.
Other decomposition products - no data available.

11 - TOXICOLOGICAL INFORMATION

Primary routes of exposure

No data available.

Acute toxicity:

LD50 Oral - Rat - > 2,000 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

Dermal: No data available

Skin corrosion / irritation

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage / eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Sensitisation test (Magnusson and Kligman): - Guinea pig Result: positive (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative.

Carcinogenicity

IARC

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

NTP

No component 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.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available.

Aspiration hazard

No data available.

Subacute to chronic toxicity

No data available.

Additional Information

No data available.

12 - ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish LC50 - Limit Test LC50 - Danio rerio (zebra fish) - > 31 mg/l - 96 h Remarks: (own results)
Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
(OECD Test Guideline 202) Remarks: (above the solubility limit in the test medium)

Persistence and degradability

No data available.

Biodegradability

Result: < 60 % - Not readily biodegradable. (OECD Test Guideline 301F).

Bioaccumulative potential

Bioaccumulation -

Cyprinus carpio (Carp) - 28 d - 0.02 mg/l(Reactive acryloyloxy mesogen MPBIS[AHB])
Bioconcentration factor (BCF): < 50 (OECD Test Guideline 305)
Cyprinus carpio (Carp) - 28 d - 0.002 mg/l(Reactive acryloyloxy mesogen MPBIS[AHB])
Bioconcentration factor (BCF): < 50 (OECD Test Guideline 305)

Mobility in soil

No data available.

PBT and vPvB conclusion

No data available.

Other adverse effects

Discharge into the environment must be avoided.

13 - DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an after burner and scrubber.
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 - TRANSPORT INFORMATION

IMDG

Not a dangerous goods

IATA

Not a dangerous goods

DOT (US)

Not a dangerous goods

15 - REGULATORY INFORMATION

Safety, health and environmental regulations

No data available.

Safety assessment

No chemical safety assessment.

16 - OTHER INFORMATION**Copyright Notice**

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