

1. Product and Company Identification

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Product Name METHYL BENZOATE

Part Number RXSOL-19-1598-050

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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Email mail@rxmarine.com

Website www.rxmarine.com

2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Weight	Formula
Methyl benzoate	93-58-3	202-259-7	136,15 g/mol	C ₈ H ₈ O ₂

3. Hazards Identification

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Signal Word

Warning

Hazard Statements

H302 Harmful if swallowed.

Precautionary statements

P264 Wash skin thoroughly after handling. Aldrich- M29908 Page 2 of 10 The life science business of Merck operates as MilliporeSigma in the US and Canada P270 Do not eat, drink or smoke when using this product. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P501 Dispose of contents/ container to an approved waste disposal plant.

Classification of the substance or mixture

No data available

Supplemental Hazard Statements

No data available

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

4. First Aid Measures

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General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance

If inhaled

After inhalation fresh air.

Eye Contact

After eye contact rinse out with plenty of water. Remove contact lenses

Swallowed

After swallowing immediately make victim drink water (two glasses at most). Consult a physician.

Skin Contact

In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Inhalation

No data available

Ingestion

No data available

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
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

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Flammability	No data available
Suitable extinguishing media	Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture	Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	No data available
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.
Protective Equipment	No data available
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Do not let product enter drains. Risk of explosion.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area
Reference to other sections	For disposal see section 13

7. Handling and Storage

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Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge
Incompatible materials	No data available
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
Advice on safe handling	No data available
Conditions for safe storage, including any incompatibilities	No data available
Storage conditions	Tightly closed.
Storage class	Storage class (TRGS 510) 10 Combustible liquids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	No data available

8. Exposure controls and personal protection

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Exposure controls
Engineering Control
Eye/face protection

Body Protection
Skin protection

Respiratory protection

Other Protection Measure

Personal protective equipment

No data available

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Protective clothing

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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 60 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 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 Aldrich- M29908 Page 5 of 10 The life science business of Merck operates as MilliporeSigma in the US and Canada 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.

Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

No data available

9. Physical and chemical properties

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Physical state

Colour

Odour

Odor Threshold

pH

Melting Point

Boiling Point

Flash Point

Evaporation Rate

Flammability (solid, gas)

Explosive limits

Upper/lower flammability or explosive limits

Autoignition temperature

Decomposition temperature

Vapour pressure

Viscosity

Density

Relative Density

Specific Gravity

Partition coefficient

Explosive properties

Liquid

Colorless

Characteristic odour

No data available

ca.6,7 at 10 g/l at 20 °C

12 °C - lit.

198 - 199 °C - lit.

77 °C - Pensky-Martens closed cup

No data available

No data available

No data available

Upper explosion limit 20 %(V) Lower explosion limit 8,6 %(V)

537 - 547 °C at 1.019 hPa

No data available

0,51 hPa at 25 °C

Dynamic 1,94 mPa.s at 23 °C

1,088 g/cm³ at 20 °C - lit

1,08 at 20 °C - OECD Test Guideline 109

No data available

Log Pow 2,1 - Bioaccumulation is not expected.

No data available

Solubility	2,1 g/l at 20 °C - soluble
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	Violent reactions possible with: Strong oxidizing agents strong alkalis
Conditions to avoid	Strong heating.
Incompatible materials	Rubber, various plastics
Hazardous product decomposition	No data available

11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - male - 1.625 mg/kg (OECD Test Guideline 401) Symptoms Stomach/intestinal disorders, Nausea, Vomiting Acute toxicity estimate Oral - 1.625 mg/kg (ATE value derived from LD50/LC50 value)
Skin corrosion/irritation	No data available
Serious eye damage/irritation	Eyes - Rabbit Result No eye irritation - 72 h (OECD Test Guideline 405)
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse Result negative (OECD Test Guideline 42)
Carcinogenicity	No data available
Germ cell mutagenicity	Test Type Mutagenicity (mammal cell test): micronucleus. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result negative Test Type In vitro mammalian cell gene mutation test Test system Chinese hamster lung cells Metabolic activation with and without metabolic activation Method OECD Test Guideline 476 Result: negative
Reproductive toxicity	No data available
Specific target organ toxicity- single exposure	No data available
Additional Information	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Systemic effects: Headache Dizziness Other dangerous properties can not be excluded

12. Ecological information

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Persistence and degradability	Biodegradability aerobic - Exposure time 29 d Result: 62 % - Readily biodegradable. (Regulation (EC) No. 440/2008, Annex, C.4-C) The 10 day time window criterion is not fulfilled
Toxicity to fish	Semi-static test LC50 - Danio rerio (zebra fish) - 23 mg/l - 96 h (Regulation (EC) No. 440/2008, Annex, C.1)
Toxicity to daphnia and other aquatic invertebrates	Static test ErC50 - Desmodesmus subspicatus (green algae) - 111,9 mg/l - 72 h (Directive 67/548/EEC, Annex V, C.3.)
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available

Mobility in soil	No data available
Results of PBT av PvB 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.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

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Product	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions
Contaminated packaging	No data available
Waste treatment Method	No data available

14. Transport information

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UN number	ADR/RID:- IMDG:- IATA:-
UN proper shipping name	ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods
Transport hazard classes	ADR/RID:- IMDG:- IATA:-
Packaging group	ADR/RID:- IMDG:- IATA:-
Environmental hazards	ADR/RID:No IMDG Marine pollutant:No IATA: No
Special precautions for user	No data available
Further information	No data available

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond
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