

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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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 delaye

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
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.

Special hazards arising from the substance or mixture

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Further information

No data available

Hazardous combustion products

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	Personal protective equipment
Engineering Control	No data available
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Body Protection	Protective clothing
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. 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.
Respiratory protection	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.
Other Protection Measure	No data available

9. Physical and chemical properties

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Physical state	Liquid
Colour	Colorless
Odour	Characteristic odour
Odor Threshold	No data available
pH	ca.6,7 at 10 g/l at 20 °C
Melting Point	12 °C - lit.
Boiling Point	198 - 199 °C - lit.
Flash Point	77 °C - Pensky-Martens closed cup
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Upper/lower flammability or explosive limits	Upper explosion limit 20 %(V) Lower explosion limit 8,6 %(V)
Autoignition temperature	537 - 547 °C at 1.019 hPa
Decomposition temperature	No data available
Vapour pressure	0,51 hPa at 25 °C
Viscosity	Dynamic 1,94 mPa.s at 23 °C
Density	1,088 g/cm ³ at 20 °C - lit
Relative Density	1,08 at 20 °C - OECD Test Guideline 109
Specific Gravity	No data available
Partition coefficient	Log Pow 2,1 - Bioaccumulation is not expected.
Explosive properties	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 classess	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.
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