

SAFETY DATA SHEET (EC 1907/2006)**BENZOIC ACID METHYLESTER, TECHNICAL**

Version: **10.3 / GB**
Revision date: **14.03.2016**
Issue date: **27.06.2002**
replaces version: **10.2**
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Material no.
Specification **135248**
VA-Nr

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name **BENZOIC ACID METHYLESTER, TECHNICAL**
Chemical Name **BME, TECHN.**
CAS-No. **93-58-3**
REACH Registration No.: **if available listed in Chapter. 3**

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

Relevant applications identified **Intermediate product under strictly controlled conditions (as per Article 18 EU Ordinance 1907/2006, REACH)**
Function **Organic intermediate/s**

1.3. Details of the supplier of the safety data sheet

Company **Oxxynova GmbH
Borsteler Weg 50
D-31595 Steyerberg**
Telephone **+49 (0)6181 59-3086**
Telefax **+49 (0)6181 59-2083**
Email address **info@oxxynova.com**

1.4. Emergency telephone number

Emergency information **+49 (0)2365 49-2232 (Interpreting service available)**
Emergency information **+49 (0)2365 49-4423 (Telefax)**

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

EU-CLP as per Regulation (EU) No. 1272/2008

Acute toxicity (oral) **Category 4** **H302**

2.2. Label elements**Labelling as per (EU) 1272/2008**

Statutory basis **EU-CLP as per Regulation (EU) No. 1272/2008**

hazard-defining component(s) (GHS)

- methyl benzoate
- Symbol(s)



Signal word **Warning**

Hazard statement **H302 - Harmful if swallowed.**

Precautionary statement: Prevention **P264 - Wash hands thoroughly with soap and water after handling.
P270 - Do not eat, drink or smoke when using this product.**

Precautionary statement: Reaction **P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.**

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**2.3. Other hazards**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients**3.1. Substances**

-

3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• methyl benzoate		Ø 95.0000%			
CAS-No.	93-58-3	EC-No.	202-259-7	REACH-No.	01-2119969268-21-0002
Acute toxicity (oral)				Category 4	H302

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

Pay attention to self-protection.

Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered.

Do not leave victims unattended.

If the casualty is unconscious: Place the victim in the recovery position.

Inhalation

Inhalation is possible if aerosols, mists, dusts, or smoke form.

Move victims into fresh air.

With labored breathing: Provide with oxygen. Consult a doctor.

If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.

Skin contact

Wash off affected area immediately with plenty of water for at least 15 minutes.

With liposoluble substances, products, or preparations, continue decontamination with polyethylene glycol 400 after initial rinsing with water and then wash with water and soap.

If symptoms persist, consult a physician for treatment.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Consult an ophthalmologist immediately if the symptoms persist.

When dealing with caustic substances, notify emergency physician immediately (key words: burns in eye).

Ingestion

Rinse mouth.

Immediately give large quantities of water to drink.

Obtain medical attention.

When dealing with caustic substances, notify emergency physician immediately.

4.2. Most important symptoms and effects, both acute and delayed**4.3. Indication of any immediate medical attention and special treatment needed**

In case of substances with high water solubility, inhalation of vapors, aerosols, mists, and smoke from caustic substances, products, and preparations, as well as caustic gases, results in irritations up to formation of necrosis in the upper respiratory tract.

The initial focus is on the local action: signs of irritation of the respiratory tract such as coughing, burning behind the sternum, tears, burning in the eyes or nose.

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There is a fundamental risk of acute toxic pulmonary edema!
In case of substances with low water solubility, only slight local irritations may appear at first, but after several hours of latency without symptoms, may develop into increasingly labored breathing and cyanosis as a result of a delayed pulmonary edema.

There is a danger of underestimating the severity of the intoxication!

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder.

Unsuitable extinguishing media: high volume water jet

5.2. Special hazards arising from the substance or mixture

In case of fire cool endangered containers with water.

Hazard-determining flue gases might develop in case of fire:

Carbon oxides

5.3. Advice for firefighters

Water for fire fighting must not be introduced in the sewer system, subsoil, or surface waters. Assure that there are sufficient fire water retaining facilities Contaminated fire fighting water must be disposed of in conformity with the regulations of the local authorities.

Fire residues should be disposed of in accordance with the regulations.

wear a self contained respiratory apparatus

Wear suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation.

Avoid contact with skin and eyes.

Wear personal protective equipment; see section 8.

6.2. Environmental precautions

Do not allow substance to enter soil, bodies of water or sewage canals.

6.3. Methods and material for containment and cleaning up

Take up mechanically or with an absorbent material.

Suitable binder: sand (for damming up), sawdust, universal absorbent

6.4. Reference to other sections

Wear personal protective equipment; see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use permissible in closed systems only. Handle and transfer product in closed systems only (gas displacement device).

Ensure that apparatus and pipelines are free from leaks. Do not ventilate into the open.

Suitable loading and unloading device required.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Storage

Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

Remarks No substance-related safety assessment is necessary / has been conducted for this product.

PNEC values

Remarks No substance-related safety assessment is necessary / has been conducted for this product.

8.2. Exposure controls**Engineering measures**

Refill and handle product only in closed system.

Leak detection recommended

Wastewater can be added to a biological wastewater treatment plant.

Minimization of emissions by means of suitable technical measures such as flanges and valves with low leakage rates, recirculation of vapours.

All precautionary measures indicated have to be observed.

Exposure controls

The substance must be handled under strictly controlled conditions in accordance with Article 17/18 of the REACH regulation.

Personal protective equipment**Respiratory protection**

Use suitable respiratory protection where aerosols/vapours are generated.

use respiratory equipment with suitable filter (filter type A) or wear a self contained respiratory apparatus

Note time limit for wearing respiratory protective equipment.

Hand protection

Glove material Nitrile, for example, Camatril (731), Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0.33 mm

Method DIN EN 374

Accidental release measures

Glove material Nitrile/Chloroprene, for example:, Nitopren 717, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0.65 mm

Method DIN EN 374

Eye protection

Safety glasses with side-shields conforming to EN166

Accidental release measures

basket-shaped glasses wear

Skin and body protection

Select materials and equipment for physical protection depending on the concentration and volume of hazardous substances and the workplace involved.

Chemical protection suit, single-use protection suit (antistatic)

Hygiene measures

Avoid contact with skin and eyes.

Wash off immediately in the event of contact with the skin (rinsing agent: glycol polyethylene 400), rinse off afterwards with copious amounts of water.

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

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**Protective measures**

All precautionary measures indicated have to be observed.
Risk assessment and risk monitoring of all work places required.
Health, Safety and Emergency Management System recommended.
Regular safety training is a must.
Written approval necessary in case of non-routine jobs, e.g. maintenance activities.
The personal protective equipment used must meet the requirements of directive 89/686/EEC and amendments (CE certification).
It should be defined in the work place in the form of a risk analysis according to directive 89/686/EEC and amendments.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance

Form liquid
Colour colourless to yellowish

Odour ester-like

Odour threshold: No data available

pH not determined

Melting point/range -14.5 °C
literature

Boiling point/range 199.5 °C (1013 hPa)
Method: OECD Test Guideline 103
literature

Flash point 86 °C
Method: ISO 2719

Evaporation rate No data available

Flammability (solid, gas) not applicable
liquid

Lower explosion limit 8.6 %(V)
literature

Upper explosion limit 20 %(V)
literature

Vapour pressure 0.5 hPa (25 °C)
literature

Density 1.09 g/cm³ (20 °C)
Method: OECD Test Guideline 109
literature

Relative density No data available

Water solubility 2.1 g/l (20 °C)
literature

Partition coefficient: n- POW: 2.2 (20 °C)

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octanol/water	literature
Autoinflammability	Not expected during handling from practical experience.
Thermal decomposition	No data available
Viscosity, dynamic	1.94 mPa.s (23 °C) Method: EN ISO 3219
Explosiveness	Not to be expected in view of the structure
Oxidizing properties	Not to be expected in view of the structure

9.2. Other information

formation of flammable gases	In use, may form flammable/explosive vapour-air mixture.
Ignition temperature	537 - 547 °C (1013 hPa) literature

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further information available

10.2. Chemical stability

No further information available

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known.

10.4. Conditions to avoid

No further information available

10.5. Incompatible materials

No further information available

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: 1625 mg/kg Method: OECD Test Guideline 401 literature
Acute inhalation toxicity	No data available
Acute dermal toxicity	LD50 Rabbit: > 2000 mg/kg No negative effects. literature
Skin irritation	not irritating Method: OECD Test Guideline 404 literature
Eye irritation	not irritating Method: OECD Test Guideline 405 literature

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Sensitization	not sensitizing Method: OECD TG 429 literature
Assessment of STOT single exposure	No data available
Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	No data available
Gentoxicity in vitro	none mutagenic / genotoxic effects literature
Carcinogenicity	No data available
Toxicity to reproduction	No data available

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 semi-static test Danio rerio (zebra fish): 23 mg/l / 96 h Method: Directive 92/69/EEC C.1 literature
Toxicity in aquatic invertebrates	LC50 Daphnia magna: 28.5 mg/l / 48 h literature
Toxicity to algae	EC50 Desmodesmus subspicatus: 111.9 mg/l / 72 h End point: growth rate Method: OECD TG 201 literature
Toxicity to bacteria	EC 10 Activated sludge: 815 mg/l / 3 h Method: OECD TG 209 literature

12.2. Persistence and degradability

Biodegradability	CO2 Evolution Test Exposure time: 29 d Result: 62 % literature
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12.3. Bioaccumulative potential

Bioaccumulation	No data available
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12.4. Mobility in soil

Mobility	No data available
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12.5. Results of PBT and vPvB assessment

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A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information

No further information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Product**

Strictly controlled conditions during disposal or treatment to air, wastewater and waste.
Wastewater can be added to a biological wastewater treatment plant.
Bring wastewater containing AOX for professional disposal.
Disposal according to local authority regulations.

Waste Key Number

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

SECTION 14: Transport information**Not dangerous according to transport regulations.**

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation**

Regulations on labour safety: It must be determined whether preventive substance-specific occupational medical examinations in accordance with national law in each case must be offered / carried out at regular intervals.

employment restriction Please note Directive 92/85/EEC (Pregnant Workers Directive) and amendments.
Please note Directive 94/33/EC (Protection of Young Workers at the Workplace Directive) and amendments.

Other regulations Please observe Appendix XVII of the EU Regulation 1907/2006 (Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, preparations and articles) as well as their amendments.

contains benzene
Not permitted in toys or parts of toys as placed on the market where the concentration of benzene in the free state is in excess of 5 mg/kg of the weight of the toy or part of toy.

15.2. Chemical safety assessment

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Chemical safety assessment No substance-related safety assessment is necessary / has been conducted for this product.

SECTION 16: Other information**Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)**

Classification	Classification procedure
Acute Tox., 4 , H302	

Relevant H phrases from chapter 3

H302 : Harmful if swallowed.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization

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LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization