

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 17.04.2012

Version: 1.0

Product: **Cetiol® OE**

(ID no. 30527880/SDS_GEN_EU/EN)

Date of print 18.04.2012

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Cetiol® OE

Chemical name: Fatty alcohol ether

CAS Number: 629-82-3

REACH registration number: 01-2119485017-37-0000

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

Relevant identified uses: plasticizers

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 211 7940-2222

E-mail address: emc-ehs-masterdata@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

Globally Harmonized System, EU (GHS)

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The product does not require a hazard warning label in accordance with GHS criteria.

According to Directive 67/548/EEC or 1999/45/EC

EEC Directives

The product does not require a hazard warning label in accordance with EC Directives.

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

No particular hazards known.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/Information on Ingredients

Substances

Chemical nature

Dioctyl ether

CAS Number: 629-82-3

EC-Number: 211-112-6

4. First-Aid Measures

Description of first aid measures

If adverse health effects develop seek medical attention.

If inhaled:
not relevant.

On skin contact:
After contact with skin, wash immediately with plenty of water.

On contact with eyes:
If adverse health effects develop seek medical attention. Immediately flush eyes with water (for 10 minutes), put on a bandage with sterile gauze, see an oculist.

On ingestion:
Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, carbon dioxide, dry powder, foam

Special hazards arising from the substance or mixture

harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.
For large amounts: Dike spillage. Pump off product.
Dispose of absorbed material in accordance with regulations.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: tin (tinplate), glass, High density polyethylene (HDPE), zinc coated, carbon steel (iron)

Further information on storage conditions: Keep container tightly sealed.

Storage stability:

Storage temperature: $\leq 30\text{ }^{\circ}\text{C}$

Protect from temperatures below: $-5\text{ }^{\circ}\text{C}$

Characteristics of the product are reversibly changed when falling below the limit temperature.

Protect from temperatures above: $30\text{ }^{\circ}\text{C}$

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

none

PNEC

Data refer to the lead substance

Components with PNEC

629-82-3: Dioctyl ether

water: 0.25 mg/l

marine water: 0.025 mg/l

intermittent release: 0.262 mg/l

STP: 1000 mg/l

sediment (freshwater): 25.39 mg/kg

sediment (marine water): 2.539 mg/kg

soil: 121.7 mg/kg

oral (secondary poisoning): 111.1 mg/kg

DNEL

Data refer to the lead substance

Components with DNEL

629-82-3: Dioctyl ether

worker: Long-term exposure- systemic effects, dermal: 4166 mg/kg

worker: Long-term exposure- systemic effects, Inhalation: 293 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 2500 mg/kg

consumer: Long-term exposure- systemic effects, Inhalation: 87 mg/m³

consumer: Long-term exposure- systemic effects, oral: 25 mg/kg

Exposure controls

Personal protective equipment

Hand protection:

Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless	
Odour:	odourless	
pH value:		
	not determined	
melting range:	-15 - -5 °C	
Boiling point:		
	not determined	
Flash point:	139 °C	(DIN ISO 2592)
Evaporation rate:		
	No data available.	
Flammability:	No data available.	
Lower explosion limit:		
	not determined	
Upper explosion limit:		
	not determined	
Ignition temperature:		
	not determined	
Density:	0.800 - 0.815 g/cm ³ (20 °C)	(DIN 51757)
Relative vapour density (air):		
	No data available.	
Solubility in water:	insoluble	
Solubility (qualitative) solvent(s):	distilled water insoluble	
Partitioning coefficient n-octanol/water (log Kow):		
	not determined	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	2 - 5 mPa*s (20 °C)	(DGF C-IV 7; Viscosity Höppler/Ubbelohde)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section., No further information available.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

None if used for intended purpose.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

No substances known that should be avoided.

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 (oral): > 2,000 mg/kg (OECD Guideline 401)

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Slightly irritating. (OECD Guideline 404)

Serious eye damage/irritation: Slightly irritating. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

Experimental/calculated data:

Ames-test

Bacteria: negative (OECD Guideline 471)

Carcinogenicity

Assessment of carcinogenicity:

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

Reproductive toxicity

Assessment of reproduction toxicity:

The data available for an assessment of the effect of the substance on reproduction are not sufficient for a proper evaluation.

Developmental toxicity

Assessment of teratogenicity:

No data was available concerning toxicity to development.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

None known

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish:

LC50 > 100 mg/l (DIN EN ISO 7346-2)

Microorganisms/Effect on activated sludge:

EC0 > 100 mg/l (OECD Guideline 209)

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential:

No data available concerning bioaccumulation.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

not applicable

Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport**ADN**

Not classified as a dangerous good under transport regulations

Sea transport**IMDG**

Not classified as a dangerous good under transport regulations

Air transport**IATA/ICAO**

Not classified as a dangerous good under transport regulations

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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