

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 25.10.2011

Version number 9

Revision: 25.10.2011

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

**Product identifier**

**Trade name:** Additive Mikon® MIK-255

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

**Application of the substance / the preparation** Additive

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Muench Chemie International GmbH

Viernheimer Strasse 70 - 76

D-69469 Weinheim

GERMANY

Phone: +49 (6201) 99 83 - 0

Fax: +49 (6201) 1 71 95

Mail: info@muench-chemie.com

Web: www.muench-chemie.com

**Further information obtainable from:** Laboratory

**Emergency telephone number:** Muench Chemie International GmbH: +49 (6201) 99 83 - 0 or +49 (171) 37 37 502

**2 Hazards identification**

**Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

**Xn**; Harmful

R20/21: Harmful by inhalation and in contact with skin.

**Xi**; Irritant

R36/38: Irritating to eyes and skin.

R10: Flammable.

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**Label elements**

**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**Code letter and hazard designation of product:**

Xn Harmful

**Hazard-determining components of labelling:**

xylene

**Risk phrases:**

10 Flammable.

20/21 Harmful by inhalation and in contact with skin.

36/38 Irritating to eyes and skin.

**Safety phrases:**

25 Avoid contact with eyes.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

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**Dangerous components:**

CAS: 1330-20-7 xylene	> 50%
EINECS: 215-535-7 Xn R20/21; Xi R38 R10	

CAS: 122-99-6 2-Phenoxyethanol	10 - 20%
EINECS: 204-589-7 Xn R22; Xi R36	

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

**Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:** Do not induce vomiting; call for medical help immediately.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Firefighting measures

**Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** Mount respiratory protective device.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

**Handling:****Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Do not store together with oxidizing and acidic materials.

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**Further information about storage conditions:**

Store receptacle in a well ventilated area.

Store in dry conditions.

Keep container tightly sealed.

**Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters**
**Ingredients with limit values that require monitoring at the workplace:**
**1330-20-7 xylene**
IOELV Short-term value: 442 mg/m<sup>3</sup>, 100 ppmLong-term value: 221 mg/m<sup>3</sup>, 50 ppm

Skin

**Additional information:** The lists valid during the making were used as basis.

**Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**


Tightly sealed goggles

**Body protection:** Protective work clothing

### 9 Physical and chemical properties

**Information on basic physical and chemical properties**
**General Information**
**Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellow
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	137°C

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<b>Flash point:</b>	25°C
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	500°C
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	1,1 Vol %
<b>Upper:</b>	7,0 Vol %
<b>Vapour pressure at 20°C:</b>	6,7 hPa
<b>Density at 20°C:</b>	0,92 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Segregation coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	87,0 %
<b>Solids content:</b>	13,0 %
<b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

#### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

#### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

##### 1330-20-7 xylene

Oral LD50 4300 mg/kg (Ratte)

Dermal LD50 2000 mg/kg (rbt)

##### 122-99-6 2-Phenoxyethanol

Oral LD50 1260 mg/kg (Ratte)

Dermal LD50 5000 mg/kg (rbt)

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

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Irritant

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**12 Ecological information****Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

ADR, IMDG, IATA

UN1993

**UN proper shipping name**

ADR

1993 FLAMMABLE LIQUID, N.O.S. (not viscous) (XYLENES, 2-Phenoxyethanol)

**IMDG, IATA**

Transport hazard class(es)

FLAMMABLE LIQUID, N.O.S. (XYLENES, 2-Phenoxyethanol)

**ADR****Class**

3 Flammable liquids.

**Label**

3

**IMDG, IATA****Class**

3 Flammable liquids.

**Label**

3

**Packing group**

ADR, IMDG, IATA

III

**Environmental hazards:****Marine pollutant:**

No

**Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):**

30

**EMS Number:**

F-E,S-E

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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**Transport/Additional information:****ADR**

Tunnel restriction code

D/E

**15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Technical instructions (air):****Class Share in %****NK > 50****Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

**Department issuing MSDS:** Laboratory**Contact:** Mr. Marek**\* Data compared to the previous version altered.**