

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

Printing date 14.12.2011

Version number 8

Revision: 14.12.2011

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

**Product identifier**

**Trade name: Cleaner Mikon® MR-72**

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

**Application of the substance / the preparation** Cleaning agent/ Cleaner

**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**

**Xi**; Irritant

R36: Irritating to eyes.

R10-67: Flammable. Vapours may cause drowsiness and dizziness.

**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.

Has a narcotizing effect.

**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:**

**Xi** Irritant

**Risk phrases:**

10 Flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

7 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

24/25 Avoid contact with skin and eyes.

51 Use only in well-ventilated areas.

60 This material and its container must be disposed of as hazardous waste.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

EU

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### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**
**Description:** Mixture: consisting of the following components.

**Dangerous components:**

CAS: 67-63-0	propan-2-ol	10 - 20%
EINECS: 200-661-7	Xi R36; F R11 R67	
CAS: 67-64-1	acetone	1 - 2,5%
EINECS: 200-662-2	Xi R36; F R11 R66-67	
CAS: 1336-21-6	ammonia	1 - 2,5%
EINECS: 215-647-6	C R34; N R50	

**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.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**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>, sand, extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:**

Water

Water with full jet

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**
**Protective equipment:** No special measures required.

### 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

**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).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Dispose of the material collected according to regulations.

**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.

Prevent formation of aerosols.

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**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 self-inflammable substances

**Further information about storage 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:**
**67-64-1 acetone**

 IOELV 1210 mg/m<sup>3</sup>, 500 ppm

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

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

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.  
Avoid contact with the eyes and skin.

**Respiratory protection:**

Not necessary if room is well-ventilated.

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**

Butyl rubber, BR

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

### 9 Physical and chemical properties

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

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

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<b>pH-value at 20 °C:</b>	11
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	82 °C
<b>Flash point:</b>	51 °C
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	425 °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>	2,0 Vol %
<b>Upper:</b>	12,0 Vol %
<b>Vapour pressure at 20 °C:</b>	43 hPa
<b>Density at 20 °C:</b>	0,97 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>	20,0 %
<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:** Carbon monoxide

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### Primary irritant effect:

**on the skin:** No irritant effect.

**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:

Irritant

EU

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**12 Ecological information****Toxicity****Acquatic 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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

**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.**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)  
(ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE)**IMDG, IATA**FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL  
ALCOHOL), ACETONE)**Transport hazard class(es)****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 10 - 20****Waterhazard class:** Water hazard class 1 (Self-assessment): slightly 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**

R11 Highly flammable.

R34 Causes burns.

R36 Irritating to eyes.

R50 Very toxic to aquatic organisms.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

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