

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

Printing date 22.11.2011

Version number 9

Revision: 22.11.2011

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

**Product identifier**

**Trade name: Release Agent Mikon® 700 MC**

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

**Application of the substance / the preparation** Release Agent

**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

R65: Harmful: may cause lung damage if swallowed.

 N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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:**

Xn Harmful

N Dangerous for the environment

**Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated heavy

Solvent naphtha (petroleum), light arom., < 0,1 % Benzene

**Risk phrases:**

10 Flammable.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

9 Keep container in a well-ventilated place.

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).

33 Take precautionary measures against static discharges.

51 Use only in well-ventilated areas.

57 Use appropriate container to avoid environmental contamination.

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**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.**Dangerous components:**

|                   |  |          |
|-------------------|--|----------|
| CAS: 64742-48-9   | Naphtha (petroleum), hydrotreated heavy                              | 20 - 50% |
| EINECS: 265-150-3 | Xn R65<br>R10-66-67<br>Carc. Cat. 3, Muta. Cat. 3                    |          |
| CAS: 64742-95-6   | Solvent naphtha (petroleum), light arom., < 0,1 % Benzene            | 20 - 50% |
| EINECS: 265-199-0 | Xn R65; N R51/53<br>R10-66-67<br>Carc. Cat. 3, Muta. Cat. 3          |          |
| CAS: 64742-47-8   | Distillates (petroleum), hydrotreated light, < 0.1 % Benzene         | 1 - 5%   |
| EINECS: 265-149-8 | Xn R65<br>R67  |          |
| CAS: 64742-49-0   | Naphtha (petroleum), hydrotreated light, < 0,1 % Benzene             | 1 - 5%   |
| EINECS: 265-151-9 | Xn R65; Xi R38; F R11; N R51/53<br>R67<br>Carc. Cat. 3, Muta. Cat. 3 |          |

**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:**

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

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

Seek medical treatment.

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Nausea

**Hazards** Danger of pulmonary oedema.**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**

In case of fire, the following can be released:

Carbon monoxide (CO)

**Advice for firefighters****Protective equipment:**

Wear fully protective suit.

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Wear self-contained respiratory protective device.

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## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

### Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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.

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

Store in cool, dry place in tightly closed receptacles.

Ensure that suitable extractors are available on processing machines

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

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:** Provide solvent resistant, sealed floor.

**Information about storage in one common storage facility:** Do not store together with oxidizing and acidic materials.

##### Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**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.

Wash hands before breaks and at the end of work.

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**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:**

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>          | Colourless      |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |
| <b>pH-value:</b>        | Not determined. |

**Change in condition**

|                                     |               |
|-------------------------------------|---------------|
| <b>Melting point/Melting range:</b> | Undetermined. |
| <b>Boiling point/Boiling range:</b> | 162 °C        |

**Flash point:** > 25 °C

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** 240 °C

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 0,6 Vol % |
| <b>Upper:</b> | 7,5 Vol % |

**Vapour pressure at 20 °C:** 5 hPa

**Density at 20 °C:** 0,78 g/cm<sup>3</sup>

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with**

**water:** Not miscible or difficult to mix.

**Segregation coefficient (n-octanol/water):** Not determined.

**Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

**Solvent content:**

**Organic solvents:** 38,0 %

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**Other information**

No further relevant information available.

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\* **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:****64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral LD50 &gt;5000 mg/kg (Ratte)

Dermal LD50 &gt;3000 mg/kg (rab)

**64742-95-6 Solvent naphtha (petroleum), light arom., < 0,1 % Benzene**

Oral LD50 &gt;6800 mg/kg (Ratte)

Dermal LD50 &gt;3400 mg/kg (rab)

Inhalative LC50/4 h &gt;10,2 mg/l (Ratte)

**64742-49-0 Naphtha (petroleum), hydrotreated light, < 0,1 % Benzene**

Oral LD50 &gt; 2000 mg/kg (Ratte)

Dermal LD50 &gt; 2000 mg/kg (rbt)

Inhalative LC50/4 h &gt; 5 mg/l (Ratte)

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

\* **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.**Ecotoxicological effects:****Remark:** Toxic for fish**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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

EU

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**13 Disposal considerations****Waste treatment methods****Recommendation**

Must be specially treated adhering to official regulations.

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) (Naphtha (petroleum), hydrotreated light, &lt; 0,1 % Benzene, Solvent naphtha (petroleum), light arom., &lt; 0,1 % Benzene)

**IMDG**

FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, &lt; 0,1 % Benzene, Solvent naphtha (petroleum), light arom., &lt; 0,1 % Benzene), MARINE POLLUTANT

**IATA**

FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, &lt; 0,1 % Benzene, Solvent naphtha (petroleum), light arom., &lt; 0,1 % Benzene)

**Transport hazard class(es)****ADR****Class**

3 Flammable liquids.

**Label**

3

**IMDG****Class**

3 Flammable liquids.

**Label**

3

**IATA****Class**

3 Flammable liquids.

**Label**

3

**Packing group****ADR, IMDG, IATA**

III

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

Yes

Symbol (fish and tree)

**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.

**Transport/Additional information:****ADR****Tunnel restriction code**

D/E

EU

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**15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Technical instructions (air):****Class Share in %****NK 20 - 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.

R11 Highly flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

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.**