

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

Printing date 07.09.2011

Version number 9

Revision: 06.09.2011

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

Product identifier

Trade name: Cleaner Mikon® R-52

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

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

Xi; Irritant

R36/38: Irritating to eyes and skin.

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

Hazard-determining components of labelling:

Terpene

Risk phrases:

10 Flammable.

36/38 Irritating to eyes and skin.

65 Harmful: may cause lung damage if swallowed.

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 fumes/aerosol.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

51 Use only in well-ventilated areas.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2011

Version number 9

Revision: 06.09.2011

Trade name: Cleaner Mikon® R-52

vPvB: Not applicable.

(Contd. of page 1)

3 Composition/information on ingredients

Chemical characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 8028-48-6	Terpene	> 50%
EINECS: 232-433-8	Xn R65; Xi R38 R10	
CAS: 67-63-0	propan-2-ol	20 - 50%
EINECS: 200-661-7	Xi R36; F R11 R67	
CAS: 2687-91-4	N-Ethyl-2-Pyrrolidon	5 - 10%
EINECS: 220-250-6	Xn R63; Xi R41	

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

After skin contact:

If skin irritation continues, consult a doctor.

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: Rinse out mouth and then drink plenty of water.

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: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

Advice for firefighters
Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Environmental precautions:

Do not allow to penetrate the ground/soil.

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.

Dispose of the material collected according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2011

Version number 9

Revision: 06.09.2011

Trade name: Cleaner Mikon® R-52

(Contd. of page 2)

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling:
Precautions for safe handling

Keep receptacles tightly sealed.
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 textiles.
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:

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.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2011

Version number 9

Revision: 06.09.2011

Trade name: **Cleaner Mikon® R-52**

(Contd. of page 3)

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:**

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	90°C

Flash point: 26°C**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** 245°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:**

Lower:	0,7 Vol %
Upper:	12,0 Vol %

Vapour pressure at 20°C: 43 hPa**Density at 20°C:** 0,83 g/cm³**Relative density** Not determined.**Vapour density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with water:** Fully miscible.**Segregation coefficient (n-octanol/water):** Not determined.**Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

Solvent content:**Organic solvents:** 89,5 %**Other information** 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** Reacts with strong acids and alkali.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

(Contd. on page 5)

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

Printing date 07.09.2011

Version number 9

Revision: 06.09.2011

Trade name: Cleaner Mikon® R-52

Nitrogen oxides (NOx)

(Contd. of page 4)

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

8028-48-6 Terpene

Oral LD50 > 5700 mg/kg mg/kg (Ratte)

Dermal LD50 > 5000 mg/kg (Ratte)
> 2000 mg/kg (rbt)

Primary irritant effect:

on the skin:

Irritations possible.

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:

Irritant

12 Ecological information

Toxicity

Acquatic toxicity:

 No further relevant information available.

Persistence and degradability:

 No further relevant information available.

Other information:

 The product is biodegradable.

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:

 Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Recommended cleansing agents:

 Water, if necessary together with cleansing agents.

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))

IMDG, IATA

FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

(Contd. on page 6)

EU

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

Printing date 07.09.2011

Version number 9

Revision: 06.09.2011

Trade name: **Cleaner Mikon® R-52**

(Contd. of page 5)

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, <u>S-E</u>
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
--------------------------------	-----

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 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

R10 Flammable.
 R11 Highly flammable.
 R36 Irritating to eyes.
 R38 Irritating to skin.
 R41 Risk of serious damage to eyes.
 R63 Possible risk of harm to the unborn child.
 R65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.

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