

1. Identification of the product and of the company/undertaking

Identification of the product :

SPITFIRE MILD SOLVENT CLEANING FLUID




Company/undertaking identification :

Company name: MUTOH EUROPE NV.
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Belgium
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2. Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:			
CAS: 112-07-2 EINECS: 203-933-3	2-butoxyethyl acetate	 Xn; R 20/21	80-100%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	 Xi; R 10-36	2.5-10%
CAS: 108-94-1 EINECS: 203-631-1	cyclohexanone	 Xn; R 10-20	2.5-10%

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

3. Hazards identification

Hazard description:



Xn Harmful

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.

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

Classification system:

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

4. First-aid measures

General information:

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: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Seek medical advice or consult doctor.

5. Fire-fighting measures

Suitable extinguishing agents:

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

Protective equipment: Mouth respiratory protective device.

6. Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7. Handling and storage

Handling

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: No special measures required.

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:	
108-65-6 2-methoxy-1-methylethyl acetate	
OES	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm New, IOELV, Sk
108-94-1 cyclohexanone	
OES	Short-term value: 20 ppm Long-term value: 10 ppm New, IOELV, Sk

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

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

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:



Wear protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
The recommendation is to use latex gloves and to change them regularly.

Eye protection: Goggles recommended during refilling

9. Physical and chemical properties

General Information	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	146°C
Flash point:	68°C (open cup)
Ignition temperature:	280.0°C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	1.3 Vol %
Upper:	9.4 Vol %
Vapour pressure at 20°C:	5.0 hPa
Density:	0.943 g/cm ³ .
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Solvent content:	
Organic solvents:	100.0 %

10. Stability and reactivity

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

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:		
112-07-2 2-butoxyethyl acetate		
Oral	LD50	2400 mg/kg (rat)
Dermal	LD50	1580 mg/kg (rabbit)

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:
Harmful

12. Ecological information

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product:

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

Land transport ADR/RID (cross-border) ADR/RID class: -
Maritime transport IMDG: IMDG Class: - Marine pollutant: No
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: -

15. Regulatory information

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:

2-butoxyethyl acetate

Risk phrases:

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

Safety phrases:

2 Keep out of the reach of children.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

56 Dispose of this material and its container to hazardous or special waste collection point.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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 R-phrases

10 Flammable.

20 Harmful by inhalation.

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

36 Irritating to eyes.