

Safety Data Sheet according to Regulation (EU) No. 1907/2006

Elita Modelle Klaus Kutschka

Revision date: 01.07.2010

Revision no.:

1,01

SMOKE AND CLEANING FLUID

00336-0001

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

SMOKE AND CLEANING FLUID

Use of the substance/preparation

Smoke and cleaning fluid

Company/undertaking identification

Manufacturer

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2. Hazards identification

Classification

Indications of danger : Harmful

R-phrases:

May cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Preparation in aliphatic hydrocarbons

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
292-459-0	90622-57-4	Alkanes, C11-C15-iso	> 50 %	Xn R53-65-66

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

Adhere to personal protective measures when giving first aid.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

If patient is not breathing, apply artificial respiration.

After contact with skin

Wash off immediately with plenty of water and soap for at least 15 minutes.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

Advice to doctor

Attention. Beware, danger of aspiration.

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide and carbon dioxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Cool containers at risk with water spray jet.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Vapours are heavier than air and spread along ground.

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Additional information

Clean contaminated surface thoroughly.

7. Handling and storage

Handling

Advice on safe handling

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Avoid contact with the skin and the eyes.

Do not breathe vapours.

In case of insufficient ventilation, especially in confined areas.

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Advice on protection against fire and explosion

Do not smoke - volatile.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

Exposure limit values

not available

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Protective gloves resistant to chemicals made of nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Tightly fitting goggles.

Eye wash bottle with pure water.

Skin protection

Light protective clothing

9. Physical and chemical properties

General information

Physical state:

Liquid

Colour:

Colourless, clear

Odour:

Very faint

Important health, safety and environmental information

Test method

Changes in the physical state

Melting point:

approx. - 40 °C

Boiling point:

180 - 200 °C

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Flash point: > 62 °C

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 7 vol. %

Vapour pressure:
(at 20 °C) < 1 hPa

Vapour pressure:
(at 50 °C) 6 hPa

Density (at 15 °C): 0,758 - 0,768 g/cm³

Water solubility: Immiscible

(at 20 °C)

Viscosity / kinematic:
(at 20 °C) 1,9 mm²/s

Solvent content

< 100 %

Other information

Ignition temperature: > 230 °C

10. Stability and reactivity

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Acute toxicity

Alkanes, C11-C15-iso

LD50/oral/rat: > 5000 mg/kg

LD50/dermal/rabbit: > 3160 mg/kg

Empirical data on effects on humans

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

Contact with eyes may cause irritation.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Hazard of lung oedema. Attention. Beware, danger of aspiration!

12. Ecological information

Ecotoxicity

Alkanes, C11-C15-iso

LC50/Pimephales promelas/96 h = 2890 mg/l

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Further information

Do not flush into surface water or sanitary sewer system.

Low hazard to waters.

May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

Advice on disposal

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport information

Other applicable information

No hazardous material as defined by the transport regulations.

15. Regulatory information

Labelling

Additional advice on labelling

According to EC-regulations the product is to be labelled as follows:

Danger symbols:

Xn - Harmful



Xn - Harmful

Hazardous components which must be listed on the label

Alkanes, C11-C15-iso

R phrases

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

S phrases

02 Keep out of the reach of children.

23 Do not breathe vapour .

24 Avoid contact with skin.

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

EU regulatory information

1999/13/EC (VOC):

> 50 %

Additional information

Regulation (EC) No 648/2004 (Regulation on detergents): Aliphatic hydrocarbons > 30%

National regulatory information

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Employment restrictions:	Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D):	1 - slightly water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)