

Safety Data Sheet

according to Regulation (EC) 1907 / 2006

SPECIAL CLEANER

Date of issue: 18.11.2013

Version: II

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

Product name:	SPECIAL CLEANER
Use of the product:	cleaning agent to clean AEROFLEX tube and sheet insulation after installation
Manufacturer / Distributor:	AEROFLEX Europe GmbH Im Lehrer Feld 30 89081 Ulm Tel.: +49 731-93292-30 Fax: +49 731-93292-33 e-mail: info@aeroflex.de
Information contact:	Tel.: +49 731-93292-30
Emergency information:	GBK Gefahrgut Büro GmbH, Ingelheim +49 6132-84463

2. Hazards identification

Hazard designation: Highly flammable. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes and skin. May cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
Classification: F ; R 11 – N ; R 50/53 – Xi ; R 36 ; R 36/38 ; R 38 – R 67 – R 66 – R 65

Additional information: At use formation of explosive / highly flammable vapour-air mixtures is possible.

Labelling in accordance with EC-Regulations:



F; Highly flammable



Xi; Irritant



N; Dangerous for the environment

Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing vapour.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P273	Avoid release to the environment.

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3. Composition/information on ingredients

Hazardous ingredients:

ETHYL ACETATE

REACH registration No: 01-2119475103-46

EC-No.: 205-500-4; CAS-Nr.: 141-78-6

Weight fraction: < 55 %

Classification: F; R11 Xi; R36 R67 R66

Classification CLP: Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319
STOT SE 3 ; H336

CYCLOHEXANE

REACH registration No.: 01-2119457290-43

EC-No.: 203-806-2; CAS-No.: 110-82-7

Weight fraction: < 55 %

Classification: F; Xn; Xi; N; R11 R38 R65 R67 R66 R50 R53

Classification CLP: Flam. Liq. 2 ; Skin Irrit. 2 ; STOT SE 3 ; Asp. Tox.
1 ; Aquatic Acute 1 ; Aquatic Chronic 1 ; H225 ;
H315 ; H336 ; H304 ; H400 ; H410

Full text of R-, H- and EUH-phrases: see section 16.

4. First-aid measures

General information:

If medical advice is needed, have product container, label or safety data sheet at hand.

In case of inhalation:

Remove casualty to fresh air and keep warm and at rest. Consult a physician in case of symptoms.

In case of skin contact:

Wash off immediately with plenty of water and soap. In case of skin irritation, consult a physician.

In case of eye contact:

Flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

In case of ingestion:

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest.

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 hazards arising from the substance or mixture:

May produce carbon monoxide and carbon dioxide.

Additional information:

Do not allow run-off from fire-fighting to enter drains or water courses. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Use suitable breathing apparatus.

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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. Keep away sources of ignition.
Environmental precautions:	Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
Methods for cleaning up / taking up:	Absorb with liquid-binding material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal.
Additional information:	May form explosive vapour-air mixtures. Provide adequate ventilation.

7. Handling and storage

Hints for safe handling:	Keep container tightly closed. Vapours are heavier than air and spread along ground. Keep a good ventilation and air-exhaust at the place of work. Avoid contact with skin, eyes and clothing.
Hints for protection against fire and explosion:	No smoking. Keep away from heat and sources of ignition. Take precautionary measures against static discharge. Use only explosion-proof equipment.
Hints for separation of incompatible products:	Keep away from food, drink and animal feeding stuffs.
Further information on storage conditions:	Keep container tightly closed in a cool, well-ventilated place.
Storage class:	3 ; 3 (TGRS 510)
Specific end use(s):	Cleaning agent – observe technical data sheet.

8. Exposure controls/personal protection

Additional information on engineering measures:	Provide adequate ventilation. Where reasonably this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below OEL, suitable respiratory protection must be worn.
Occupational exposure limits requiring monitoring:	ETHYL ACETATE CAS-No.: 141-78-6 Limit value type: TWA (EC) Limit value: 200 ml/m ³ Limit value type: STEL (EC) Limit value: 400 ml/m ³

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CYCLOHEXANE

CAS-No.: 110-82-7

Limit value type:	TWA (EC)
Limit value:	100 ml/m ³ / 350 mg/m ³
Limit value type:	STEL (EC)
Limit value:	300 ml/m ³ / 1050 mg/m ³

Personal protection equipment

General health 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.
Treat subsequently with skin cream.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

Respiratory protection:

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

Hand protection:

Splash protection:
Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) > 30 minutes, i.e. protective glove <Butoject 898> 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.

Eye protection:

Eye wash bottle with pure water.
Tightly fitting goggles.

Skin protection:

Solvent-resistant apron.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Colour:	Clear
Odour:	Fruity

Safety relevant basis data

Melting point / range:	< - 30°C
Boiling point / range:	> 70°C
Flash point:	- 18°C
Lower explosion limit:	1,2 Vol-%
Upper explosion limit:	11,5 Vol-%
Ignition temperature:	260°C
Vapour pressure:	(20°C) 104 hPa
Density:	(20°C) 0,84 g/cm ³

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Water solubility:	(20°C)	Immiscible
Solvent content:	100 %	

10. Stability and reactivity

Reactivity:	No decomposition if stored and applied as directed.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Reactions with oxidizing agents.
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.
Hazardous reaction:	No dangerous reactions known.
Hazardous decomposition products:	Carbon monoxide and carbon dioxide.

11. Toxicological information

Irritation and corrosivity:	Skin irritation: Irritant Eye irritation: Irritant
Sensitising effects:	Not classified.
Severe effects after repeated or prolonged exposure:	STOT - Single exposure: Category 3 (May cause drowsiness and dizziness). STOT - Repeated exposure: Not classified. Aspiration hazard: May be fatal if swallowed and enters airways.
Experience made in practice:	May cause irritation of the mucous membranes. Effects of breathing high concentrations of vapour may include: Headache, dizziness, weakness, unconsciousness.

12. Ecological information

Results of PBT and vPvB assessment:	According to regulation (EC) 1907/2006 none of the substances contained in this product are PBT / vPvB substances.
Other adverse effects:	Hazardous water pollutant. Very toxic to water organisms, may cause long-term adverse effects in the aquatic environment.
General ecological information:	Do not allow to enter drains/surface water/ground-water.

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13. Disposal considerations

Disposal product:

Advice on disposal: Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.

Waste codes / waste designations according to EWC: 08 04 09*: Waste adhesives and sealants containing organic solvents or other dangerous substances.
Classified as hazardous waste.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal. 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 like the product.

Please note: The classification of waste for this product may change according to the field of its application. Please observe Directive 2001/118/EC

14. Transport information

UN number: UN 1993

Land transport (ADR/RID)

Classification

Class: 3
No. for hazard designation: 33
Classification code: F1
Limited quantity: 1 L / 30 kg
Transport category: 2
Tunnel restriction code: D/E

UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE ◊ ETHYL ACETATE)

Package

Packing group: II
Hazard label: 3

Sea transport

Classification

Class: 3
EmS-No.: F-E / S-E
Limited quantity: 1 L / 30 kg

UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE ◊ ETHYL ACETATE)

Package

Packing group: II
Hazard label: 3

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Air transport

Class: 3

UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE ◊ ETHYL ACETATE)

Package

Packing group:	II
Hazard label:	3
Limited quantity passenger:	Y341 / 1 L
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions – Cargo:	364
IATA-max. quantity – Cargo:	60 L

15. Regulatory information

EU regulatory information

1999/13/EC (VOC): 100 %

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 – water contaminating

16. Other information

Full text of R-phrases

11	Highly flammable.
36	Irritating to eyes.
36/38	Irritating to eyes and skin.
38	Irritating to skin.
50	Very toxic to aquatic organisms.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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