



Safety data sheet

Kema EL-K80S Contact Cleaner w/ lubricant

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

Revision: 21-09-2007/ HN Replaces: 21-09-2007	Distributor: ITW Chemical Products Scandinavia Priorsvej 36 8600 Silkeborg Tel:(+45) 86 82 64 44 Fax:(+45) 86 82 64 64 Emergency telephone number: +45 86 82 64 44 Emergency telephone number between 8 and 15.30 ; Monday to Friday. Contact person:Helle Nielsen Email: info@itw-scan.com
Product use: Contactcleaner for electronic components.	
Article Number: 11535	

2. Hazards identification

Extremely flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Additional information By prolonged use this product may form flammable/explosive vapour-air mixture. The vapour is heavier than air and can accumulate in low level areas. Do not breathe vapour.

3. Composition/information on ingredients

Einecs no.	CAS No.	Substances	Classification	w/w%	
203-692-4	109-66-0	pentane	F+;R12 Xn;R65 R66 R67 N;R51/53	50-60	3
200-578-6	64-17-5	ethanol	F;R11	20-30	
200-661-7	67-63-0	Propan-2-ol	F;R11 Xi;R36 R67	1-5	
204-696-9	124-38-9	carbon-dioxide-	-	5-10	

3) R65 is not applicable due to use as aerosols.
Please see section 16 for the full text of the R-phrases

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4. First aid measures

Inhalation

Remove the exposed person to fresh air. If symptoms persist seek medical advice.

Ingestion

Rinse mouth thoroughly with water. Seek medical advice if symptoms persist.

Skin

Wash skin with soap and water. Seek medical advice if symptoms persist. Apply a reconditioning skin cream.

Eyes

Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice if symptoms persist. Keep rinsing the eye during transportation.

Burns

Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

Other information

When obtaining medical advice, show the safety data sheet or label.

5. Fire-fighting measures

Extinguish with powder, foam, carbon dioxide or water mist. Do not use water spray, as it may spread the fire. Remove larger stocks of containers from the danger area if this is possible without risk. Use water or water mist to cool non-ignited stock. CAUTION! Aerosol containers may explode. Fire fighters should wear self-contained breathing apparatus.

6. Accidental release measures

In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Eliminate all sources of ignition. Ventilate the area. Personal Protection - see point 8. Spillage from aerosols is very unlikely. Possible spillage will evaporate.

7. Handling and storage

Handling

Contains organic solvents. Wear suitable gloves and goggles to avoid contact with skin and eyes. Keep away from sources of ignition.

Storage

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Store in a dry area.

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8. Exposure controls/ personal protection

Precautions for use

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use fresh air system if the work takes place in very small, closed areas and/or if the local ventilation/suction is inadequate.

Respiratory protection

The product contains liquids with a low boiling point which are poorly adsorbed on charcoal filters. The use of fresh air respiratory protective equipment is thus required. In most cases a mask with a filter insert for hydrocarbon solvents is adequate, as the product normally is used only for a short period of time.

Gloves and protective clothing

Use nitrile gloves if there is a risk of skin contact.

Eye protection

Wear safety goggles if there is a risk of eye splash.

Occupational exposure limits

Ingredients	Exposure limit	Remarks
carbon-dioxide-	5000 ppm 9150 mg/m ³	-
ethanol	1000 ppm 1920 mg/m ³	-
Propan-2-ol	400 ppm 999 mg/m ³	-

The exposure limits stated are in accordance with EH40/2002 Occupational Exposure Limits 2002.

Control methods

Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

9. Physical and chemical properties

Appearance: Clear liquid
Odour: Slightly of alcohol
Relative density (g/ml): 0,4
Vapour density: >1 (air = 1,0)

Flash point (°C) (Conc)(°C): < 14

10. Stability and reactivity

Stable under recommended storage and handling conditions. Durability for the aerosol is at least 5 years from date of production, if there is enough propellant in the aerosol to apply the contents in a satisfactory way. Reacts with strong oxidizing agents. Combustion will generate: Carbon monoxide, carbon dioxide, smoke and oxides of nitrogen.

11. Toxicological information

Acute

Inhalation

The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

Ingestion

Difficult because of the packing. Ingestion may cause nausea. Do not provoke vomiting.

Skin contact

The product has a degreasing effect on the skin. Prolonged skin contact can cause irritation.

Eye contact

May cause eye irritation.

Long-term effects

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12. Ecological information

Avoid discharge to drain or surface water.

Ecotoxicity

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

Mobility

A part of the product is volatile and will evaporate from water and earth in a few days.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

13. Disposal considerations

Wasters, including emptied containers, are controlled wasters and should be disposed in accordance with regulation made by the local authorities.

Empty aerosols (totally emptied for propellant) or aerosols that by accident have been punctured: EWC-code 15 01 04. Remains of the product should be disposed of in accordance with regulations made by the local authorities: EWC-code 16 05 04. EWC code: Depends on line of business and use, for instance 15 01 04 00

14. Transport information

The product must be transported in accordance with national and/or international rules for transport of dangerous goods by road and sea according to ADR and IMDG.

ADR: UN 1950 ; Aerosols ; 2.1 ;

IMDG: UN 1950 ; Aerosols ; 2.1 ;

Classification code: Label ADR: 2.1 Hazard identification number:

Flash point: °C Label IMDG: 2.1 IMDG EmS.: F-D; S-U

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15. Regulatory information



Extremely flammable



Dangerous for the environment

Hazard designation: Extremely flammable; Dangerous for the environment

Hazard symbols: F+;N

R-phrases

Extremely flammable. (R12)

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

Repeated exposure may cause skin dryness or cracking. (R66)

Vapours may cause drowsiness and dizziness. (R67)

S-phrases

Keep away from sources of ignition - No smoking. (S16)

Do not breathe vapour/spray. (S23-DA)

Take precautionary measures against static discharges. (S33)

Use only in well ventilated areas. (S51)

Avoid release to the environment. Refer to special instructions/safety data sheet. (S61)

Other labelling

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Keep out of the reach of children.

Volatile organic compounds (VOC):

This product contains a maximum of 106 g VOC/L. The limit value is g VOC/L (cat. B/e)

Chemical safety assessment

Chemical safety assessment has not been performed.

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16. Other information

Training requirement

No special training is required, but a thorough knowledge of this data safety sheet should be a prerequisite condition.

Packaging

Spray can.

Sources used

Other information

The product should only be used for the stated application or applications.
The information in this MSDS are based on our present state of knowledge and on current EEC and national laws. The users own working conditions are beyond our knowledge and control. The information in this MSDS are meant as a description of the safety requirements of our product: it may not be considered as a guarantee of the products' properties.

Full text of the R-phrases that are stated in section 3.

R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
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.

Amendments have been made in the following sections

There have been made changes in section 1, 7, 10, 11, 14, 15 and 16

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