



Safety data sheet

Kema DL-44L Degreaser

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

Revision: 25-09-2009/ MJH Replaces: 03.03.2003	Distributor: ITW Chemical Products Scandinavia Priorsvej 36 8600 Silkeborg
Product use: Degreaser.	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: Marlene Hesselberg Email: info@itw-scan.com
Article no.: 7772	

2. Hazards identification

Flammable. Irritating to skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: May cause lung damage if swallowed.
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. Emitted vapours may be ignited by for instance a spark, a hot surface or an ember.

3. Composition/information on ingredients

Einecs no.	CAS No.	Substances	Classification	w/w%
232-433-8	8028-48-6	Orange Terpenes	R10 Xn;R38 R43 R65 N;R50/53	80-100
<i>Please see section 16 for the full text of the R-phrases</i>				

4. First aid measures

Inhalation Seek fresh air. Seek medical advice if symptoms persist.
Ingestion Wash out mouth thoroughly and drink plenty of water. Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Seek medical advice if symptoms persist. If any material enters the lungs, for example during swallowing or vomiting, obtain medical attention urgently.
Skin Immediately remove contaminated clothing. Wash skin with soap and water. Use a moisture cream. Seek medical advice if symptoms persist.
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.
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.

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5. Fire-fighting measures

Extinguish with powder, foam, carbon dioxide or water mist. Do not use water stream, as it may spread the fire. Use water or water mist to cool non-ignited stock. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air. Fire fighters should wear self-contained breathing apparatus.

6. Accidental release measures

Use the same personal protective equipment as stated in section 8. Ventilate the area. Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains. Contain and absorb spill with sand, cat litter or other absorbent material and transfer to suitable waste containers. See section 13 for instructions on disposal.

7. Handling and storage

Handling

See section 8 for information about precautions for use and personal protective equipment. Ensure best possible ventilation. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

Storage

Keep container tightly closed to avoid spillage and contamination of the product. Store in a dry, cool, well-ventilated area.

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.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Gloves and protective clothing

Use PVC or PE gloves if there is a risk of skin contact.

Eye protection

Wear safety goggles/face protection.

Occupational exposure limits

Ingredients	Exposure limit	Remarks

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, colourless liquid. Flash point: app. 50 °C
Odour: Citrus.
Melting point: -89 til -96,9 °C
Density: 0,836 - 0,849 g/ml
Solubility in water (g/100 ml): Insoluble.
Vapour pressure: 2,1 mbar (20 °C)
Boiling point: 175 - 178 °C

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10. Stability and reactivity

Stabile under recommended storage and handling conditions. The self life for the product is at least 2 years from date of production. Reacts with strong oxidizing agents. Reacts with strong acids. Reacts with strong bases. Combustion will generate: Carbonmonoxide.

11. Toxicological information

Acute

Inhalation

Inhalation of concentrated vapours in areas with little ventilation could result in headache and nausea and have an anaesthetics effect.

Ingestion

May cause chemical pneumonia if ingested or vomited. Same symptoms as by inhalation.

Skin contact

Irritating to skin – may cause reddening. Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking.

Eye contact

May be strongly irritating to the eyes, causing reddening and increased tear production.

Risk of sensitization

The product contains small amounts of Orange Terpenes. Persons with a known allergy may exhibit an allergic response to the product.

Long-term effects

May cause damage to the central nervous system

Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

12. Ecological information

Avoid discharge to drain or surface water.

Ecotoxicity

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

Mobility

Insoluble in water.

Persistence and degradability

No data available.

Bioaccumulative potential

The product will leach into soil.

13. Disposal considerations

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

EAK-code 07 06 04

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 2319 ; Terpene Hydrocarbons, n.o.s. ; 3 ; III ; D/E
D/E

IMDG: UN 2319 ; Terpene Hydrocarbons, n.o.s. ; 3 ; III

Classification code: - Label ADR: 3 Hazard identification number: -
Flash point: 50°C Label IMDG: 3 IMDG EmS.: F-E;S-D

MP: Marine Pollutant

15. Regulatory information



Harmful



Dangerous for the environment

Hazard designation: Harmful; Dangerous for the environment

Hazard symbols: Xn;N

Contains

Orange terpener

R-phrases

Flammable. (R10)

Irritating to skin. (R38)

May cause sensitisation by skin contact. (R43)

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (R50/53)

Harmful: May cause lung damage if swallowed. (R65)

S-phrases

Avoid contact with skin. (S24)

Wear suitable gloves. (S37)

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

If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label. (S62)

Other labelling

Volatile organic compounds (VOC):

This product contains a maximum of 849 g VOC/L. The limit value is 850 g VOC/L (cat. B/a)

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 safety data sheet should be a prerequisite condition.

Packaging

Bulk.

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.

R10 Flammable.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: May cause lung damage if swallowed.

Amendments have been made in the following sections

Changes have been made in the entire datasheet.

ITW Chemical Products Scandinavia Priorsvej 36, 8600 Silkeborg +45 86 82 64 44/+45 86 82 64 64 (Made in Toxido®) UK