



Safety data sheet

Kema Ral

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

Revision: 17-09-2010/ HN Replaces: 27-08-2010	Distributor: ITW Chemical Products Scandinavia Priorsvej 36 8600 Silkeborg
Product use: RAL Industrial lacquers, shiny.	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
Articlenumber: 07xxx	

2. Hazards identification

DSD/DPD-classification Xi Extremely flammable. Irritating to eyes. 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. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system. Repeated or prolonged contact may decrease the skin leading to irritation and dermatitis.

3. Composition/information on ingredients

Einecs no.	CAS No.	Substances	DSD-Classification	w/w%
203-539-1	107-98-2	1-Methoxypropan-2-ol	R10	<5 12
203-603-9	108-65-6	1-Methoxypropylacetate	R10 Xi;R36	<5 12
203-905-0	111-76-2	2-butoxyethanol	Xn;R20/21/22 Xi;R36/38	<5 12
204-065-8	115-10-6	dimethyl ether	F+;R12	30-50 12
204-658-1	123-86-4	Butyl acetate	R10 R66 R67	1-10 12
215-535-7	1330-20-7	xylene	R10 Xn;R20/21 Xi;R38	1-12 12
252-104-2	34590-94-8	(2-methoxymethylethoxy)propanol	-	<2 12
200-662-2	67-64-1	acetone	F;R11 Xi;R36 R66 R67	20-40 12
265-199-0	64742-95-6	Solvent naphtha (petroleum), light arom.	R10 Xn;R65 Xi;R37 N;R51/53 R66 R67	<2 3

3) R65 is not applicable due to use as aerosols. 12) The substance is included in the EU list of limit values for occupational exposure
Please see section 16 for the full text of the R-phrases

4. First aid measures

Inhalation

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

Ingestion

Wash out mouth thoroughly and drink plenty of water. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Obtain medical attention.

Skin

Remove contaminated clothing. Wash skin with soap and water. Use a moisture cream. Seek medical advice in case of persistent discomfort.

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.

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.

CAUTION! Aerosol containers may explode. Fire fighters should wear self-contained breathing apparatus.

6. Accidental release measures

Use the same personal protective equipment as stated in section 8. Provide adequate ventilation. Smoking and naked flames prohibited. Wipe up drops and splashes with a cloth and dispose of the cloth as set out in section 13. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Spillage from aerosols is very unlikely. Spillage should be contained with cloth or oil absorbent materials and placed in suitable containers for destruction.

7. Handling and storage

Handling

Contains organic solvents. Smoking and naked flames prohibited. See section 8 for information about precautions for use and personal protective equipment.

Storage

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 °C.

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

Wear protective gloves of type 4H. Disposable gloves made of nitrile may be used if replaced immediately when contaminated. Wear normal work wear.

Eye protection

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

Occupational exposure limits

Ingredients	Exposure limit	Remarks
1-Methoxypropan-2-ol	100 ppm 375 mg/m ³	Sk
1-Methoxypropylacetate	50 ppm 274 mg/m ³	-
2-butoxyethanol	25 ppm 123 mg/m ³	Sk, Bmgv
dimethyl ether	400 ppm 766 mg/m ³	-
Butyl acetate	150 ppm 724 mg/m ³	-
xylene	100 ppm 441 mg/m ³	Sk
acetone	750 ppm 1810 mg/m ³	-
butanol	- ppm - mg/m ³	Sk

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

Remarks

SK: Can be absorbed through skin

Bmgv: Biological monitoring may be appropriate and Biological Monitoring Guidance Value is listed in Table 3 (Occupational Exposure Limits)

Control methods

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

9. Physical and chemical properties

Appearance: Paint in different colours - aerosol

Flash point: < 0 °C

Odour: Solvent

Density: 0,8 g/mL

Solubility in water (g/100 ml): Insoluble in water

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. Combustion will generate: Carbon monoxide (CO) and Carbon dioxide (CO₂).

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. May cause chemical pneumonia if ingested or vomited.

Skin contact

Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking. Can be absorbed through the skin with symptoms paralleling inhalation

Eye contact

Irritating to eyes. Causes a burning sensation and tearing.

Long-term effects

12. Ecological information

Avoid unnecessary release to the environment. Avoid discharge to drain or surface water.

Ecotoxicity

The product contains an ingredient that is toxic to aquatic organisms, and may cause long-term adverse effects in the aquatic environment.

Mobility

The solvent will evaporate.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

13. Disposal considerations

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

Remains of the product should be disposed of in accordance with regulations made by the local authorities: EWC-code 16 05 04. Empty aerosols (totally emptied for propellant) or aerosols that by accident have been punctured: EWC-code 15 01 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 1950 ; Aerosols ; 2.1 ; ; D

IMDG: UN 1950 ; Aerosols ; 2.1 ;

Classification code: Label ADR: 2.1 Hazard identification number:

Flash point: -1 °C Label IMDG: 2.1 IMDG EmS.: F-D, S-U

15. Regulatory information



Irritant



Hazard designation: Irritant

Hazard symbols: Xi

R-phrases

Extremely flammable. (R12A)

Irritating to eyes. (R36)

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)

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (S26)

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). (S23)

In case of insufficient ventilation, wear suitable respiratory equipment. (S38)

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 716 g VOC/L. The limit value is 840 g VOC/L (cat. B/e)

Chemical safety assessment

Chemical safety assessment has not been performed.

16. Other information

Restrictions on use

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.

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage 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

1,3, and 16