

**Safety data sheet**  
**complying with Regulation 1907/2006/EC (REACH Regulation),**  
**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 14.02.2022

Version number 4 (replaces version 3)

Revision: 14.02.2022

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: PAINT REMOVER KL349****UFI: C440-J0DF-M00E-K7R3****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the mixture:** Paint and varnish remover from metal and wooden surfaces.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Kalogeropoulos Chemicals S.A.

D. Gounari 35, 185 31

Pireaus, Greece

Tel: +30 2104124518

Fax: +30 2104101607

e-mail: info@kalochem.gr

website: www.kalochem.gr

**1.4 Emergency telephone number:**

European Emergency Tel.: 112

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

STOT SE 2 H371 May cause damage to organs.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

**2.2 Label elements****Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

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**Hazard pictograms:**

GHS02 GHS07 GHS08

**Signal word:** Danger**Hazard-determining components of labelling:**

dimethoxymethane  
 Xylene mixture of isomers

**Hazard statements:**

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H371 May cause damage to organs.

**Precautionary statements**

P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P280 Wear protective gloves / eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture: consisting of the following components.**Ingredients according Regulation (EU) 2020/878:**

CAS: 646-06-0 EINECS: 211-463-5 Index number: 605-017-00-2 Reg.nr.: 01-2119490744-29-XXXX	1,3-dioxolane ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	≥65-<75%
CAS: 109-87-5 EINECS: 203-714-2 Reg.nr.: 01-2119664781-31-XXXX	dimethoxymethane ⚠ Flam. Liq. 2, H225; ⚠ STOT SE 2, H371; ⚠ Acute Tox. 4, H302	≥20-<30%

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CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-XXXX	Xylene mixture of isomers ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥3-<5%
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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Take affected persons out into the fresh air.

In all cases call a doctor

**After inhalation:**

Seek medical treatment in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Remove contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

In case of skin irritation, consult a physician.

**After eye contact:**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

**After swallowing:**

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.**5.2 Special hazards arising from the substance or mixture**

Hazardous vapors may be released in the event of a fire.

**5.3 Advice for firefighters****Protective equipment:**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

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Ensure adequate ventilation.

Avoid inhalation of vapors.

Avoid contact with skin and eyes.

**6.1.1 For non-emergency personnel** Avoid contact with dripping or leaking material**6.1.2 For emergency responders**

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Dispose contaminated material as waste according to item 13.

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid contact with skin, eyes and clothing.

Store in cool, dry place in tightly closed receptacles.

Handle with care. Avoid jolting, friction and impact.

**Information about fire - and explosion protection:**

Protect against electrostatic charges.



Keep ignition sources away - Do not smoke.

Prevent impact and friction.

Keep it in a dry, cool, well ventilated, fixed in advance place, away from sources of heat, flames, ignition and direct sunlight.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Keep container tightly closed when not in use

Store in a cool, dry place away from sources of ignition.

**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** None.**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 109-87-5 dimethoxymethane**

WEL (Great Britain)	Short-term value: 3950 mg/m <sup>3</sup> , 1250 ppm Long-term value: 3160 mg/m <sup>3</sup> , 1000 ppm
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**CAS: 1330-20-7 Xylene mixture of isomers**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**DNELs**

(CAS: 109-87-5) Dimethoxymethane

Workers:

Long-term, systemic effects, dermal: 17.9 mg/kg bw/d

Long-term, systemic effects, inhalation: 126.6 mg/m<sup>3</sup>

Consumers:

Long-term, systemic effects, oral: 18.1 mg/kg

Long-term, systemic effects, inhalation: 31.5 mg/m<sup>3</sup>Long-term, systemic effects, dermal: 18.1 mg/kg bw/d  
xylene( cas: 1330-20-7)

workers

dermal, long term systemic effects 180 mg/kg bw/day

inhalation, long term systemic effects 77 mg/m<sup>3</sup>

consumers

oral. long term systemic effects 1,6 mg/kg bw/day

dermal, long term systemic effects 108 mg/kg bw/day

inhalation, long term systemic effects 14,8 mg/m<sup>3</sup>**PNECs**

(CAS: 109-87-5) Dimethoxymethane

Freshwater: 14.577 mg/l

Marine water: 1.4577 mg/l

Freshwater sediment: 13.135 mg/kg bw/d

Marine water sediment: 1.3135 mg/kg bw/d

Soil: 4.6538 mg/kg bw/d

Sewage treatment plant: 10000 mg/l

CAS: 1330-20-7 Xylene (mixture of isomers)

STP: 6.58 mg/l

Freshwater: 0.327 mg/l

Soil: 2.31 mg/kg

Marine water: 0.327 mg/l

Intermittent releases: 0.327 mg/l

Sediment (freshwater): 12.46 mg/kg

Sediment (marinewater): 12.46 mg/kg

**8.2 Exposure controls****8.2.1. Appropriate engineering controls** Provide adequate ventilation.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke while using the product.

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Avoid contact with skin and eyes.

Do not breathe vapours or mists.

Be sure to clean skin thoroughly after work and before breaks.

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:**

In case of insufficient ventilation use suitable respiratory protective device.

**Hand protection**

Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

**Penetration time of glove material**

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

**Eye/face protection**

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

**Body protection:**

Protective work clothing

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Physical state**

Liquid

**Colour:**

Semi Clear

White

**Odour:**

typical of solvent

**Odour threshold:**

Not determined

**Melting point/freezing point:**

Not determined

**Boiling point or initial boiling point and boiling range**

Not determined

**Flammability**

Not applicable

**Lower and upper explosion limit****Lower:**

Not determined

**Upper:**

Not determined

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<b>Flash point:</b>	-18 °C (CAS: 109-87-5 dimethoxymethane)
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Decomposition temperature:</b>	Not determined
<b>pH at 20 °C</b>	8.5-9.5
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic:</b>	Not determined
<b>Solubility</b>	
<b>water:</b>	Insoluble
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure:</b>	Not determined
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.9-1.1 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not determined

**9.2 Other information****Appearance:****Form:**

Thick liquid

**Important information on protection of health and environment, and on safety.****Auto-ignition temperature:**

Not determined

**Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Cloud point / clarification point:****Oxidising properties**

Not oxidising

**Evaporation rate**

Not determined

**Information with regard to physical hazard classes****Explosives**

Void

**Flammable gases**

Void

**Aerosols**

Void

**Oxidising gases**

Void

**Gases under pressure**

Void

**Flammable liquids**

Highly flammable liquid and vapour.

**Flammable solids**

Void

**Self-reactive substances and mixtures**

Void

**Pyrophoric liquids**

Void

**Pyrophoric solids**

Void

**Self-heating substances and mixtures**

Void

**Substances and mixtures, which emit flammable gases in contact with water**

Void

**Oxidising liquids**

Void

**Oxidising solids**

Void

**Organic peroxides**

Void

**Corrosive to metals**

Void

**Desensitised explosives**

Void

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**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid**

The product should not be exposed to high temperatures, sparks, flame and electrostatic charges.

**10.5 Incompatible materials** Oxidizing agents**10.6 Hazardous decomposition products** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Dermal	LD50	44,737 mg/kg (rabbit)
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**CAS: 646-06-0 1,3-dioxolane**

Oral	LD50	3,000 mg/kg (rat)
Dermal	LD50	8,480 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	20,650 mg/l (rat)

**CAS: 109-87-5 dimethoxymethane**

Oral	LD50	5,708 mg/kg (rabbit)
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**CAS: 1330-20-7 Xylene mixture of isomers**

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)
Inhalative	LC50 (4h)	5,000 ppm (rat)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Causes serious eye irritation.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure**The product is classified as Specific Target Organ Toxicity after single exposure Category 3  
May cause damage to organs.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**Additional toxicological information:****Repeated dose toxicity** Based on available data, the classification criteria are not met.

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**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

\* **SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 1330-20-7 Xylene mixture of isomers**

EC50 (48h) &gt;7.4 mg/l (daphnia magna)

LC50 (96h) 2.6 mg/l (fis)

NOEC r (72h) 440 mg/l (algae)

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.\* **SECTION 14: Transport information****14.1 UN number or ID number**  
**ADR, IMDG, IATA**

UN1993

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<b>14.2 UN proper shipping name</b>	
<b>ADR</b>	1993 FLAMMABLE LIQUID, N.O.S. (DIOXOLANE, METHYLAL)
<b>IMDG, IATA</b>	FLAMMABLE LIQUID, N.O.S. (DIOXOLANE, METHYLAL)
<b>14.3 Transport hazard class(es)</b>	
<b>ADR, IMDG, IATA</b>	
	
<b>Class</b>	3 Flammable liquids.
<b>Label</b>	3
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	II
<b>14.5 Environmental hazards:</b>	
Not applicable.	
<b>14.6 Special precautions for user</b>	
Warning: Flammable liquids.	
<b>Hazard identification number (Kemler code):</b>	33
<b>EMS Number:</b>	F-E, <u>S-E</u>
<b>Stowage Category</b>	B
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	
Not applicable.	
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	D/E
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>UN "Model Regulation":</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (DIOXOLANE, METHYLAL), 3, II

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

**Directive 2012/18/EU****Named dangerous substances - ANNEX I** Substance is not listed.**Seveso category P5c** FLAMMABLE LIQUIDS**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.


H371 May cause damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

**Training hints**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

**Department issuing SDS:**

**SUST**  SUSTCHEM S.A.  
**CHEM** REACH & Chemical Services Department  
CONSULTING  
 A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece  
 T: +30 210 8252510 | F: +30 210 8252575  
 W: www.sustchem.gr | E: info@suschem.gr

**Contact:**

Kalogeropoulos Chemicals S.A.

e-mail: info@kalochem.gr

**Version number of previous version: 3****Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

**\* Data compared to the previous version altered.**