# Safety Data Sheet WALLGARD REMOVER GEL

Safety Data Sheet dated: 14/06/2022 - version 3



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Mixture identification:

Trade name: WALLGARD REMOVER GEL

Trade code: 901795 UFI: QC75-10R6-U00K-JMY7

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Glycolether based graffiti gel remover

Uses advised against: Data not available

### 1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsible: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

# **SECTION 2: Hazards identification**



### 2.1. Classification of the substance or mixture

# Regulation (EC) n. 1272/2008 (CLP)

Eye Irrit. 2 Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

# 2.2. Label elements

Regulation (EC) n. 1272/2008 (CLP)

# **Pictograms and Signal Words**



3

# **Hazard statements:**

H319 Causes serious eye irritation.

# **Precautionary statements:**

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P337+P313 If eye irritation persists: Get medical advice/attention.

# Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

# 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >=0.1%.

Other Hazards: No other hazards

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not Relevant

# 3.2. Mixtures

Mixture identification: WALLGARD REMOVER GEL

# Hazardous components within the meaning of the CLP regulation and related classification:

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Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥75 - <100 %	O dipropyleneglycol methyl ether	CAS:34590-94-8 EC:252-104-2	[1,3,OEL]	01-2119450011-60-xxxx
≥5 - <10 %	propylene carbonate	CAS:108-32-7 EC:203-572-1 Index:607-194- 00-1	Eye Irrit. 2, H319	01-2119537232-48-xxxx
≥2.5 - <5 %	(z)-octadec-9-enylamine, ethoxylated	CAS:26635-93-8 EC:500-048-7	Eye Irrit. 2, H319	
≥1 - <2.5 %	Isotridecanol, ethoxylated	CAS:9043-30-5 EC:500-027-2	Acute Tox. 4, H302; Eye Dam. 1, H318	
≥0.05 - <0.1 %	1-methoxy-2-propanol	CAS:107-98-2 EC:203-539-1 Index:603-064- 00-3	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35-XXXX

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

# 4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

# 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

# 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

Use suitable breathing apparatus.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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Limit leakages with earth or sand.

# 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand Retain contaminated washing water and dispose it.

# 6.4. Reference to other sections

See also section 8 and 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

# 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

# **SECTION 8: Exposure controls/personal protection**

National FINLAND

# 8.1. Control parameters

# List of components with OEL value

List of components wit	h OEL va	lue							
	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
dipropyleneglycol methyl ether CAS: 34590-94-8	SUVA			300	50	300	50		
	NDS			240					
	Nationa	I		303	50	600	100		
	Nationa	I		300	50	450	75		Short-term value, 15 minutes average value
	Nationa	I		310	50				hud
	Nationa	I		300	50				Н
	NDSCh			480					
	EU			308	50				Skin
	ACGIH				100		150		Skin - Eye and URT irr, CNS impair
	DFG	GERMANY	С			310	50		
	ACGIH				100		150		Skin - potential significant contribution to overall exposure by the cutaneous route; CNS impairment; eye and upper respiratory tract irritation
	Nationa	I SWEDEN		300	50				
	Nationa	I FRANCE		308	50				
	Nationa	I SPAIN		308	50				
	Nationa	I GREECE		600	100	900	150		
	Nationa	I DENMARK		309	50				

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50

310

	National	GERMANY		310	50				
	National	PORTUGAL		308	50		150		
	National	NORWAY		300	50	375	75		
	National	BELGIUM		308	50				
	NDS	POLAND		240					
		POLAND				480			
	CHE	SWITZERLAND	)			300	50		
	NDS	NETHERLANDS		300					
	National		,	270					
	National	REPUBLIC		270					
	National	HUNGARY		308					
	Malaysi	MALAYSIA		606	100				Skin notation
	a OEL								
		ESTONIA		308	50				
	National	I LATVIA		308	50				
	National	CZECH REPUBLIC	С			550			
	National	SLOVAKIA		308	50				
	National	SLOVENIA		308	50				
	National	UNITED KINGDOM		308	50	924	150		
	National	BULGARIA		308,0	50				
		ROMANIA		308	50				
	TUR	TURKEY		308	50	450	75		
		LITHUANIA		308	50	450	75		
		CROATIA		308	50				
	EU			308	50			Indicative	Possibility of significant uptake through the skin
propylene carbonate CAS: 108-32-7	National	LATVIA		2					
	National	LITHUANIA		7					
	DFG	GERMANY	С			8,5	2		
		GERMANY	C	8,5	2	0,5	_		
1-methoxy-2-propanol	SUVA	GERMAN		375	100	568	150		
CAS: 107-98-2	3014			373	100	300	150		
	National	SWEDEN		190	50	300	75		SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND		370	100	560	150		FINLAND, hud
		I NORWAY		180	50	300	130		NORWAY, H
	NDS	INORWAT		180	30				NORWAT, II
	NDSCh	LNODWAY		360	F0	270	100		
		NORWAY		185	50	370	100		
	EU			375	100	563	150		Skin
	ACGIH		_		50		100		A4 - Eye and URT irr
	DFG	GERMANY	С			740	200		
	ACGIH				50		100		A4 - Not Classifiable as a Human Carcinogen;eye and upper respiratory tract irritation
	National	SWEDEN		190	50				
	National	FRANCE		188	50	375	100		
	National	SPAIN		375	100	568	150		
	National	GREECE		360	100	1080	300		
	National	DENMARK		185	50				

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National FINLAND	370	100	560	150		
National GERMANY	370	100	300	130		
National PORTUGAL	370 375	100	568	150		
National BELGIUM	375	100	568	150		
NDS POLAND	180					
NDSCh POLAND			360			
CHE SWITZERLAND			720	200		
NDS NETHERLANDS	375		563			
National CZECH REPUBLIC	270					
National HUNGARY	375		568			
Malaysi MALAYSIA a OEL	369	100				
National ESTONIA	375	100	568	150		
National LATVIA	375	100	568	150		
National CZECH C REPUBLIC			550			
National SLOVAKIA C			568			
National SLOVAKIA	375	100				
National SLOVENIA	375	100	562,5	150		
National UNITED KINGDOM	375	100	560	150		
National BULGARIA	375,0	100	568,0	150		
National ROMANIA	375	100	568	150		
TUR TURKEY	375	100	568	150		
National LITHUANIA	190	50	300	75		
National CROATIA	375	100	568	150		
EU	375	100	568	150	Indicative	Possibility of signification uptake through the s

Predicted No Effect Concentration (PNEC) values

Predicted No Effect Concentration (PNEC) values						
	PNEC Limit	<b>Exposure Route</b>	<b>Exposure Frequency Remark</b>			
dipropyleneglycol methyl ether CAS: 34590-94-8	19 mg/l	Fresh Water				
	1,9 mg/l	Marine water				
	70,2 mg/kg	Freshwater sediments				
	7,02 mg/kg	Marine water sediments				
	4168 mg/l	Microorganisms in sewage treatments				
	190 mg/l	Intermittent release				
	2,74 mg/kg	Soil				
propylene carbonate CAS: 108-32-7	0,09 mg/l	Marine water				
	0,09 mg/l	Fresh Water				
	7400 mg/l	Microorganisms in sewage treatments				
	0,81 mg/kg	Soil				
1-methoxy-2-propanol CAS: 107-98-2	10 mg/l	Fresh Water				
	100 mg/l	Intermittent release				
	1 mg/l	Marine water				

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100 mg/l Microorganisms in sewage treatments

52,3 mg/kg Freshwater sediments

5,2 mg/kg Marine water sediments

4,59 mg/kg Soil

# **Derived No Effect Level. (DNEL)**

		, r Workei r Profess ional		Exposure Route	Exposure Frequency Remark
dipropyleneglycol methyl ether CAS: 34590-94-8	-		15 mg/kg	Human Dermal	Long Term, systemic effects
	310 mg/m3		37,2 mg/m3	Human Inhalation	Long Term, systemic effects
			1,67 mg/kg	Human Oral	Long Term, systemic effects
propylene carbonate CAS: 108-32-7	50 mg/kg			Human Dermal	Long Term, systemic effects
	20 mg/m3			Human Inhalation	Long Term, local effects
	176 mg/m3			Human Inhalation	Long Term, systemic effects
			25 mg/kg	Human Dermal	Long Term, systemic effects
			43,5 mg/m3	Human Inhalation	Long Term, systemic effects
			25 mg/kg	Human Oral	Long Term, systemic effects
			10 mg/m3	Human Inhalation	Long Term, local effects
1-methoxy-2-propanol CAS: 107-98-2		369 mg/m3		Human Inhalation	Long Term, systemic effects
		553,5 mg/m3		Human Inhalation	Short Term, systemic effects
		553,5 mg/m3		Human Inhalation	Short Term, local effects
		183 mg/kg		Human Dermal	Long Term, systemic effects
			43,9 mg/m3	Human Inhalation	Long Term, systemic effects
			78 mg/kg	Human Dermal	Long Term, systemic effects
			33 mg/m3	Human Oral	Long Term, systemic effects

# 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

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Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

### Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid Appearance: gel Color: transparent Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: 100 °C (212 °F)

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: 75 °C (167 °F)

Auto-ignition temperature: Not available Decomposition temperature: Not available

pH: 7.00

pH (water dispersion, 10%): 7.00

Viscosity: Not available

Kinematic viscosity: Not available Solubility in water: dispersible Solubility in oil: Not available

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available Relative density: 1.00 g/cm3 Vapour density: Not available **Particle characteristics:** Particle size: Not available

# 9.2. Other information

Miscibility: Not available Conductivity: Not available No other relevant information

### **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

# 10.3. Possibility of hazardous reactions

None

# 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

# 10.6. Hazardous decomposition products

None.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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# Toxicological information of the mixture:

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation 
The product is classified: Eye Irrit. 2(H319)

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

# Toxicological information on main components of the mixture:

dipropyleneglycol methyl a) acute toxicity

ether

LD50 Oral Rat > 5000, mg/kg

LD50 Skin Rabbit = 9500 mg/kg

propylene carbonate a) acute toxicity LD50 Skin Rabbit > 2000, mg/kg

LD50 Oral Rat > 29000, mg/kg

Isotridecanol, ethoxylated a) acute toxicity LD50 Oral Rat = 1000 mg/kg

1-methoxy-2-propanol a) acute toxicity LD50 Oral Rat = 5300 mg/kg

LD50 Skin Rabbit = 13000 mg/kgLC50 Inhalation Rat = 28.8 mg/l 4h

LD50 Skin Rabbit = 13 g/kg

LC50 Inhalation Rat > 7559 ppm 6h

LD50 Oral Rat = 5000 mg/kg

h) STOT-single exposure NOAEL Oral Rat = 919 mg/kg

NOAEL Inhalation Rat = 3,7 mg/kg NOAEL Skin Rabbit > 1000 mg/kg

### 11.2 Information on other hazards

# **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Biodegradability: The product is readily and rapidly degradable (biodegradation value >60%, OECD 301 D). Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

# List of Eco-Toxicological properties of the product

Not classified for environmental hazards

Based on available data, the classification criteria are not met

# List of components with eco-toxicological properties

Component Ident. Numb. Ecotox Infos

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dipropyleneglycol methyl ether CAS: 34590-94- a) Aquatic acute toxicity: LC50 Fish Pimephales promelas > 10000 mg/L 96h

8 - EINECS: 252-104-2

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 1919 mg/L 48h

UCLID

propylene carbonate CAS: 108-32-7 - a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio > 1000 mg/L 96h IUCLID

EINECS: 203-572-1 - INDEX: 607-194-00-1

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna > 500 mg/L 48h

UCLID

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus > 500 mg/L

72h IUCLID

1-methoxy-2-propanol CAS: 107-98-2 - a) Aquatic acute toxicity: LC50 Fish = 5000 mg/L 96

EINECS: 203-539-1 - INDEX: 603-064-00-3

a) Aquatic acute toxicity: EC50 Daphnia = 23300 mg/L 48
a) Aquatic acute toxicity: EC50 Algae > 1000 mg/L 96

a) Aquatic acute toxicity: LC50 Bacteria > 1000 mg/L 3

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 20,8 g/l 96h

IUCLID

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 23300 mg/L 48h

**IUCLID** 

### 12.2. Persistence and degradability

# Component Persitence/Degradability:

dipropyleneglycol methyl ether Readily biodegradable

#### 12.3. Bioaccumulative potential

N.A.

# 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >=0.1%.

### 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

# 12.7 Other adverse effects

Not available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

# Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

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### Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

### **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

#### 14.1. UN number or ID number

Not Applicable

### 14.2. UN proper shipping name

Not Applicable

# 14.3. Transport hazard class(es)

Not Applicable

### 14.4. Packing group

Not Applicable

#### 14.5. Environmental hazards

Not Applicable

### 14.6. Special precautions for user

Not Applicable

Road and Rail ( ADR-RID ):

ADR-Hazard identification number: NA

Not Applicable

Air ( IATA ):

Not Applicable

Sea ( IMDG ):

Not Applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC (2004/42/EC): N.A. g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

None

# Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 75

### **SVHC Substances:**

SVHC substances not present in a concentration  $\geq 0.1\%$  (w/w)

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# **National regulations**

Produktregisteret Norge: 110965

MAL-kode: 1-4 (1993)

### German Water Hazard Class (WGK)

Class 1: slightly hazardous for water.

# 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

#### **SECTION 16: Other information**

Code	Description	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
Code	Hazard class and hazard category	Description
<b>Code</b> 2.6/3	Hazard class and hazard category Flam. Liq. 3	<b>Description</b> Flammable liquid, Category 3
	<b>5</b> ,	·
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
2.6/3 3.1/4/Oral	Flam. Liq. 3 Acute Tox. 4	Flammable liquid, Category 3 Acute toxicity (oral), Category 4

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.3/2	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

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EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

\* Sheet model entirely changed in compliance to regulatory update.

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