

HEADLIGHT KLARLACK

Creation date 04th February 2025

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Version

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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Substance / mixture

mixture

Number

1 35163

UFI

JCA2-QDDY-U00X-J6FM

1.2. Relevant identified uses of the substance or mixture and uses advised against**Mixture's intended use**

Varnish. For professional use only.

Main intended use

PC-PNT-3 Paints/coatings - Protective and functional

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet**Supplier**

Name or trade name

RETECH, s.r.o.

Address

Vackova 1541/4, Praha 5 - Stodůlky, 155 00

Czech Republic

Identification number (CRN)

25018205

VAT Reg No

CZ25018205

Phone

+420327596428

E-mail

info@retech.cz

Web address

www.retech.com

Competent person responsible for the safety data sheet

Name

RETECH, s.r.o.

E-mail

info@retech.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 3, H226

STOT SE 3, H336

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause drowsiness or dizziness.

2.2. Label elements**Hazard pictogram****Signal word**

Warning

Hazardous substances

n-butyl acetate

hydrocarbons, C9, aromatics

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Hazard statements

 H226 Flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.

Precautionary statements

 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P370+P378 In case of fire: Use powder extinguisher/foam/carbon dioxide to extinguish.

Supplemental information

 EUH066 Repeated exposure may cause skin dryness or cracking.
 Density 1.02 g/cm³
 VOC limit value cat. B (e) : 840 g/l
 Max. VOC content in the product in its ready to use condition 528 g/l

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	33-<36	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	2
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	9-<11.5	Flam. Liq. 3, H226	2
EC: 918-668-5 Registration number: 01-2119455851-35	hydrocarbons, C9, aromatics	1-<1.5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	
Index: 601-026-00-0 CAS: 100-42-5 EC: 202-851-5 Registration number: 01-2119457861-32	styrene	0.1-<0.2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 Repr. 2, H361d STOT RE 1, H372 (hearing organs) Aquatic Chronic 3, H412	1

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Notes

- 1 *Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".*
- 2 *A substance for which exposure limits are set.*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

No specific first aid measures noted. Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 15 minutes.

If swallowed

Provide medical treatment. Do not induce vomiting unless directed to do so by medical personnel. Do not provide anything by mouth if the person is unconscious or if having cramps.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

May cause drowsiness or dizziness.

If on skin

not available

If in eyes

not available

If swallowed

not available

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

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder. Water mist. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Container: May burst if heated. Do not breathe smoke.

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5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting. EN 659+A1: - Protective gloves for firefighters. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask.

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

Stop leak if safe to do so. Flammable liquid and vapour. Remove all ignition sources. Use non-sparking tools. Use personal protective equipment for work. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Ventilate the room. Large spills may be taken up with pump. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use only outdoors or in a well-ventilated area. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Take action to prevent static discharges. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Store in a well-ventilated place. Keep away from sources of heating, ignition and direct sunlight.

Content	Packaging type	Material of package
400 ml	bottle	

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union
Commission Directive (EU) 2019/1831

Substance name (component)	Type	Value
n-butyl acetate (CAS: 123-86-4)	OEL 8 hours	241 mg/m ³
	OEL 8 hours	50 ppm
	OEL 15 minutes	723 mg/m ³
	OEL 15 minutes	150 ppm

European Union
Commission Directive 2000/39/EC

Substance name (component)	Type	Value
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m ³

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European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	50 ppm
	OEL 15 minutes	550 mg/m ³
	OEL 15 minutes	100 ppm

Notes

Skin.

DNEL

2-methoxy-1-methylethyl acetate			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	1.67 mg/kg	Chronic effects systemic
Consumers	Inhalation	33 mg/m ³	Chronic effects systemic
Workers	Inhalation	275 mg/m ³	Chronic effects systemic
Consumers	Dermal	54.8 mg/kg	Chronic effects systemic
Workers	Dermal	153.5 mg/kg	Chronic effects systemic
Consumers	Inhalation	33 mg/m ³	Chronic effects local

hydrocarbons, C9, aromatics			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	11 mg/kg	Chronic effects systemic
Consumers	Inhalation	32 mg/m ³	Chronic effects systemic
Consumers	Dermal	11 mg/kg	Chronic effects systemic
Workers	Inhalation	150 mg/m ³	Chronic effects systemic
Workers	Dermal	25 mg/kg	Chronic effects systemic

n-butyl acetate			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Inhalation	300 mg/m ³	Acute effects local
Workers	Inhalation	600 mg/m ³	Acute effects local
Consumers	Inhalation	300 mg/m ³	Acute effects systemic
Workers	Inhalation	600 mg/m ³	Acute effects systemic
Consumers	Inhalation	35.7 mg/m ³	Chronic effects local
Workers	Inhalation	300 mg/m ³	Chronic effects local
Consumers	Inhalation	35.7 mg/m ³	Chronic effects systemic
Workers	Inhalation	300 mg/m ³	Chronic effects systemic
Consumers	Oral	2 mg/kg bw/day	Acute effects systemic
Consumers	Oral	2 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	6 mg/kg bw/day	Acute effects systemic
Consumers	Dermal	6 mg/kg bw/day	Chronic effects systemic
Workers	Dermal	11 mg/kg bw/day	Chronic effects systemic

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styrene			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	2.1 mg/kg	Chronic effects systemic
Consumers	Inhalation	182.75 mg/m ³	Acute effects local
Consumers	Inhalation	174.25 mg/m ³	Acute effects systemic
Consumers	Inhalation	10.6 mg/m ³	Chronic effects systemic
Consumers	Dermal	343 mg/kg	Chronic effects systemic
Workers	Inhalation	306 mg/m ³	Acute effects local
Workers	Inhalation	289 mg/m ³	Acute effects systemic
Workers	Inhalation	85 mg/m ³	Chronic effects systemic
Workers	Dermal	406 mg/kg	Chronic effects systemic

PNEC

2-methoxy-1-methylethyl acetate	
Route of exposure	Value
Freshwater environment	0.635 mg/l
Marine water	0.0635 mg/l
Freshwater sediment	3.29 mg/kg
Freshwater sediment	0.329 mg/kg
Microorganisms in sewage treatment	100 mg/l
Soil (agricultural)	0.29 mg/kg
Water (intermittent release)	6.35 mg/l

n-butyl acetate	
Route of exposure	Value
Freshwater environment	0.18 mg/l
Marine water	0.018 mg/l
Freshwater sediment	0.981 mg/kg of dry substance of sediment
Water (intermittent release)	0.36 mg/l
Soil (agricultural)	0.0903 mg/kg of dry substance of soil
Microorganisms in sewage treatment	35.6 mg/l
Sea sediments	0.0981 mg/kg of dry substance of sediment

styrene	
Route of exposure	Value
Freshwater environment	0.028 mg/l
Marine water	0.0028 mg/l
Freshwater sediment	0.614 mg/kg
Sea sediments	0.0614 mg/kg
Water (intermittent release)	0.04 mg/l
Microorganisms in sewage treatment	5 mg/l
Soil (agricultural)	0.2 mg/kg

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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Take off contaminated clothing. Contaminated skin should be washed thoroughly.

Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. Category III. EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Wear category I professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344).

Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A. EN 14387. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. The protection provided by masks is in any case limited.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	128 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	35 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.02 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid
data not available	

9.2. Other information

Evaporation rate	data not available
VOC limit value	cat. B (e) : 840 g/l
Max. VOC content in the product in its ready to use condition	528 g/l

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SECTION 10: Stability and reactivity
10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours mixed up with air can be explosive.

10.4. Conditions to avoid

Protect against overheating. Take action to prevent static discharges. Remove all ignition sources.

10.5. Incompatible materials

not available

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture. In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-methoxy-1-methylethyl acetate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	8530 mg/kg		Rat	
Dermal	LD ₅₀	>5000 mg/kg		Rat	
Inhalation	LC ₅₀	>10.6 mg/l	6 hours	Rat	

hydrocarbons, C9, aromatics					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	>8 ml/kg bw		Rat	
Dermal	LD ₅₀	>3160 mg/kg		Rabbit	
Inhalation	LC ₅₀	>6193 mg/m ³		Rat	

n-butyl acetate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	>6400 mg/kg		Rat	
Dermal	LD ₅₀	>5000 mg/kg		Rabbit	
Inhalation	LC ₅₀	21.1 mg/l	4 hours	Rat	

styrene					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5000 mg/kg		Rat	
Dermal	LD ₅₀	>2000 mg/kg		Rat	
Inhalation	LC ₅₀	11.8 mg/kg	4 hours	Rat	

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Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

styrene						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
				Human		2B (IARC, 2002)

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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Acute toxicity

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	450 mg/l	48 hours	Daphnia (Daphnia magna)	

hydrocarbons, C9, aromatics				
Parameter	Value	Exposure time	Species	Environment
EC ₅₀	3.2 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	2.9 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
LC ₅₀	9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

n-butyl acetate				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	18 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	44 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	397 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

styrene				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	4.02 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	4.7 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	4.9 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₁₀	0.28 mg/l	96 hours	Algae (Pseudokirchneriella subcapitata)	

Chronic toxicity

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Species	Environment
NOEC	47.5 mg/l	14 days	Fish (Oncorhynchus mykiss)	
NOEC	>100 mg/l	21 days	Daphnia (Daphnia magna)	
NOEC	>1000 mg/l	96 hours	Algae (Selenastrum capricornutum)	

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styrene				
Parameter	Value	Exposure time	Species	Environment
NOEC	1.01 mg/l	21 days	Crustaceans	

More information

Avoid release to the environment. Inform respective authorities in case of seepage into water course or sewage system.

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Environment	Result
	>10000 mg/l			Biodegradable
	83 %	28 days		

n-butyl acetate				
Parameter	Value	Exposure time	Environment	Result
	1000-10000 mg/l			Biodegradable
	83 %	28 days		

styrene				
Parameter	Value	Exposure time	Environment	Result
	320 mg/l			Biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

2-methoxy-1-methylethyl acetate					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	1.2				

n-butyl acetate					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	2.3				
BCF	15.3				

styrene					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	2.96				
BCF	74				

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

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n-butyl acetate

Parameter	Value
K(soil-water)	<3

styrene

Parameter	Value
Ksoil-water	2.55

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number or ID number**

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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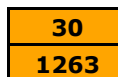
Additional information

Special instructions: A3, A72, A192

Hazard identification No.

UN number

Safety signs



3


Road transport - ADR

Limited quantities	5 L
Excepted quantities	E1
Transport category	3
Tunnel restriction code	(D/E)

Railway transport - RID

Excepted quantities	E1
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Air transport - ICAO/IATA

Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
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SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

More information

Directive 2012/18/EU of the European parliament and of the Council - ANNEX I - Hazard categories: P5c FLAMMABLE LIQUIDS.

SECTION 16: Other information
A list of standard risk phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to hearing organs through prolonged or repeated exposure.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

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H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P370+P378 In case of fire: Use powder extinguisher/foam/carbon dioxide to extinguish.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₁₀	Concentration of a substance when it is affected 10 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity

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RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.1 replaces the SDS version from Thursday, 15 June 2023. Changes were made in sections 1, 2, 3, 8, 9, 11, 12, 13 and 16.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.