

L6000 Ředidlo do lihových nátěrových hmot

Creation date 23. October 2019
Revision date Version 1.0

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

- 1.1. Product identifier**
Substance / mixture L6000 Ředidlo do lihových nátěrových hmot
Other mixture names L6000 Thinner for spirit paints
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use The thinner L6000 is used to dilute spirit paints and varnishes, unless their quality standard prescribes another thinner.

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**
Manufacturer
Name or trade name COLORLAK, a.s.
Address Tovární 1076, Staré Město, 686 03
Czech Republic
Identification number (CRN) 49444964
VAT Reg No CZ49444964
Phone +420 572527111
E-mail colorlak@colorlak.cz
Web address www.colorlak.cz
Competent person responsible for the safety data sheet
Name Ing. Turoňová Veronika
E-mail turonova@colorlak.cz
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

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. 2, H225
Eye Irrit. 2, H319
Repr. 2, H361d
Aquatic Chronic 3, H412

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes serious eye irritation. Suspected of damaging the unborn child. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

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Hazardous substances

ethanol
toluene

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/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.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to be handing over to a person authorized to dispose of waste or a site designated by the town.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

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.

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: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	90-95	Flam. Liq. 2, H225 Eye Irrit. 2, H319	1
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	5-7	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373	1, 2

Notes

- Substance for which exposure limits of Community for working environment exist.
- The use of the substance is restricted by Annex XVII of REACH Regulation

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

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/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 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

If inhaled

Not expected.

If on skin

Not expected.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

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

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6.3. Methods and material for containment and cleaning up

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. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Storage class

3A - Flammable liquids (flash point below 55 °C)

Storage temperature

+5 to +25 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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

Substance name (component)	Type	Time of exposure	Value	Note	Source
toluene (CAS: 108-88-3)	OEL	8 hours	192 mg/m ³	skin	EU limits
	OEL	8 hours	50 ppm	skin	
	OEL	Short-term	384 mg/m ³	skin	
	OEL	Short-term	100 ppm	skin	

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethanol (CAS: 64-17-5)	WEL	8 hours	1920 mg/m ³		GBR
	WEL	8 hours	1000 ppm		
toluene (CAS: 108-88-3)	WEL	8 hours	191 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR

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United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
toluene (CAS: 108-88-3)	WEL	15 minutes	384 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	8 hours	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	100 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	

DNEL

ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	950 mg/m ³	Systemic chronic effects	
Workers	Dermal	343 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	114 mg/m ³	Systemic chronic effects	
Consumers	Dermal	206 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	87 mg/kg bw/day	Systemic chronic effects	

toluene

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	192 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	226 mg/m ³	Systemic acute effects	

PNEC

ethanol

Route of exposure	Value	Determining method
Freshwater environment	960 µg/l	
Seawater	790 µg/l	
Water (occasional leak)	2.75 mg/l	
Microorganisms in wastewater treatment plants	580 mg/l	
Freshwater sediment	3.6 mg/kg of dry substance of sediment	
Sea sediments	2.9 mg/kg of dry substance of sediment	
Soil (agricultural)	630 µg/kg	
Food chain	380-720 mg/kg of food	

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toluene

Route of exposure	Value	Determining method
Freshwater environment	680 µg/l	
Seawater	680 µg/l	
Water (occasional leak)	680 µg/l	
Microorganisms in wastewater treatment plants	13.61 mg/l	
Freshwater sediment	16.39 mg/kg of dry substance of sediment	
Sea sediments	16.39 mg/kg of dry substance of sediment	
Soil (agricultural)	2.89 mg/kg of dry substance of soil	

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

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

Appearance

Physical state

liquid at 20°C

color

clear, yellowish

Odour

after organic solvents

Odour threshold

data not available

pH

data not available

Melting point/freezing point

data not available

Initial boiling point and boiling range

data not available

Flash point

8.5 °C (ČSN EN 456)

Evaporation rate

data not available

Flammability (solid, gas)

Flammable liquid of risk class I

Upper/lower flammability or explosive limits

flammability limits

data not available

explosive limits

bottom

1.1 Vol. %

upper

19 Vol. %

Vapour pressure

28.9 till 57.3 hPa at 20 °C

Vapour density

>1 (air = 1)

Relative density

data not available

Solubility(ies)

solubility in water

not miscible

solubility in fats

data not available

Partition coefficient: n-octanol/water

data not available

Auto-ignition temperature

data not available

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Decomposition temperature	data not available
Viscosity	data not available
Kinematic viscosity	<20.5 mm ² /s at 40°C
Explosive properties	data not available
Oxidising properties	data not available
VOC content in product: category and subcategory of products	- not classified

9.2. Other information

Density	0.78-0.82 g/cm ³ at 23 °C (ČSN EN ISO 2811-1, DIN 53 217/3)
ignition temperature	395 °C (ČSN 33 0371)
combustion temperature	16 °C
total organic carbon (TOC)	0.530 kg/kg
solid content (dry matter)	0 % volume
Calorific value: 27,53 MJ/kg (ČSN 65 6169)	
Heat of combustion: 30,38 MJ/kg (ČSN 65 6169)	

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

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 toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD50	13300 mg/kg		Rat		
Inhalation	LC50	82.1-92.6 mg/l of air	6 hour	Rat		echa

toluene

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD50	5580 mg/kg bw		Rabbit		echa
Inhalation	LC50	25.7 mg/l of air	4	Rat		echa
Dermal	LD50	5000 mg/kg bw		Rabbit		echa

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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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

Suspected of damaging the unborn child.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Repeated dose toxicity

ethanol

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL		9700 mg/kg bw/day		Mouse		echa
Inhalation	NOAEC		6.66 mg/l of air		Rat		echa

toluene

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Source
Oral	NOAEL		625 mg/kg bw/day		Rat (Rattus norvegicus)		echa
Inhalation	NOAEC		1.131 mg/l of air		Rat (Rattus norvegicus)		echa

Aspiration hazard

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

ethanol

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	14.2-15.4 g/l	96 hour	Fishes (Oncorhynchus mykiss)		echa
EC50	10 g/l	48 hour	Aquatic invertebrates		echa

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ethanol

Parameter	Value	Time of exposure	Species	Environment	Source
EC50	675-22000 mg/l	96 hour	Algae and other aquatic plants		echa
EC50	5.8 g/l	4 hour	Microorganisms (Photobacterium phosphoreum)		echa

toluene

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	5.5 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		BL dodavatele
NOEC	1.37 mg/l	40 day	Fishes (Pimephales promelas)		echa
EC50	3.78 mg/l	48 hour	Invertebrates	Freshwater	BL dodavatele
NOEC	0.74 mg/l	7 day	Invertebrates	Freshwater	BL dodavatele
EC50	134 mg/l	3 hour	Algae (Chlorella vulgaris)	Freshwater	BL dodavatele
NOEC	10 mg/l		Algae	Freshwater	BL dodavatele
EC50	84 mg/l	24 hour	Microorganisms (Photobacterium phosphoreum)		echa

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. 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. Proceed in accordance with valid regulations on waste disposal. 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

07 07 04 other organic solvents, washing liquids and mother liquors
14 06 03 other solvents and solvent mixtures
20 01 13 solvents

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by dangerous substances

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SECTION 14: Transport information

14.1. UN number

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (contains ethanol, toluene)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

Additional information

Hazard identification No.

33

(Kemler Code)

UN number

1993

Classification code

F1

Safety signs

3



Road transport - ADR

Special provision

274, 601, 640D

Limited quantities

1 L

Excepted quantities

E2

Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T7

Special provision

TP1, TP8, TP28

ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

2

Tunnel restriction code

(D/E)

Special provision for

operation

S2, S20

Railway transport - RID

Special provision

274, 601, 640D

Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

Portable tanks and bulk containers

Guidelines

T7

Special provision

TP1, TP8, TP28

RID Tanks

Tank code

LGBF

Transport category

0

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Air transport - ICAO/IATA

Packaging instructions for limited amount	Y344
Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	310

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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P501	Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P101	If medical advice is needed, have product container or label at hand.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P405	Store locked up.
P370+P378	In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.
P201	Obtain special instructions before use.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P103	Read label before use.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P337+P313	If eye irritation persists: Get medical advice/attention.

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

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

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DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	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
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
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
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

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

SAFETY DATA SHEET

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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. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

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.