SAFETY DATA SHEET

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

SOLMAX

Creation date	25th January 2013		
Revision date	26th July 2018	Version	4

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

1.1. Product identifier SOLMAX

Substance / mixture: mixture

Other mixture names: Cleaning spray

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

Mixture's intended use: Cleaning spray

The use descriptors

PW Widespread use by professional workers

Mixture uses advised against: Not specified. It is recommended to be used only for specified uses. Other uses may expose users to unforeseeable risks.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	NOVATO
Address	Uralská 770/6, Praha, 160 00 Czech Republic
Identification number (CRN)	62910370
VAT Reg No	CZ62910370
Phone	+420 233 339 688
E-mail	petr.johanides@novato.cz
Web address	www.novato.cz

Competent person responsible for the safety data sheet

Name	ABITEC
E-mail	info@abitec.cz

1.4. Emergency telephone number

National poisoning information centre Scotland, NHS 24: 111

112 National Health Service (NHS) 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.

Aerosol 1, H222, H229
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

The mixture is extremely flammable. Container under pressure: Do not expose to sunlight and temperatures above 50 ° C. Do not pierce or empty the empty container. Do not spray into naked flames or hot items. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Incomplete combustion may generate hazardous gases.

Most serious adverse effects on human health and the environment

Inhalation of aerosol can cause headache, tiredness, drowsiness, drowsiness and narcotic conditions, exceptionally irritation of mucous membranes and airways. Do not breathe aerosol. Irritating to skin (redness, itching, burning or dermatitis). Irritating to eyes (tearing, burning, itching or conjunctivitis). Frequent or prolonged contact with the skin causes drying or cracking of the skin or dermatitis. Ingestion of the liquid fraction can cause abdominal pain and nausea. Follow the instructions in the user manual. The mixture is classified as dangerous for the environment. Follow the instructions for use to avoid risks to humans and the environment. The liquid is lighter than water and can cover the water surface. Do not allow to enter soil, ground or surface water or drains. The full text of the classification and H statements is given in section 16 of this safety data sheet.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

2.3. Other hazards

The mixture or its components are not classified as PBT or vPvB nor are they listed on the candidate list for Annex XIV of the REACH Regulation as of the date of preparation of the SDS.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

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.
CAS: 64742-49-0 EC: 927-510-4 Registration number: 01-2119475515-33-XXXX	Hydrocarbons C7, n-alkanes, isoalkanes, cycloalkanes	50-75	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	isopropanol	25-50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1
CAS: 124-38-9 EC: 204-696-9	carbon-dioxide	2,5-5	Press. Gas (compressed gas), H280	1

Notes

1 Substance for which exposure limits of Community for working environment exist.

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

If you feel any health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In the case of life-threatening conditions, resuscitate. Keep the unconscious person in a stabilized position and do not give anything by mouth. Avoid cool. Do not induce vomiting. For spontaneous vomiting, avoid inhalation of vomit.

If inhaled

If inhaled, stop exposure, flush the oral cavity with water, breathe fresh air. If respiratory tract irritation develops, seek medical attention. If necessary (breathing or irregular breathing), perform artificial respiration.

If on skin

Remove clothing if contaminated clothing. Wash the affected area thoroughly with lukewarm water. Seek medical attention if irritation symptoms occur.

If in eyes

If it has affected contact lenses, remove them if possible. Open wide eyes rinse out of the inner corner of the eye toward the outside of a large amount of clean, lukewarm water, especially the area under the lids. Rinse for at least 15 minutes and seek medical attention.

If swallowed

In the case of an aerosol product, ingestion is very unlikely. Do not induce vomiting, rinse your mouth with water. Immediately seek medical advice and present this Safety Data Sheet. Risk of inhalation of vomit.

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

If inhaled

Inhalation of the aerosol may cause headaches, fatigue, drowsiness, malaise to narcotic conditions, exceptional irritation of mucous membranes and respiratory tract. Do not inhale aerosol.

If on skin

Irritating to skin (redness, itching, burning). Frequent or prolonged contact with the skin causes drying or cracking of the skin or dermatitis.

If in eyes

The mixture irritates the eyes (redness, tearing, burning, inflammation of conjunctivae).

If swallowed

not available

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

In the normal use of the compound, immediate medical assistance is not required. It is required only if the symptoms of a certain degree are attained, as described in paragraphs 4.1 to 4.2; is symptomatic.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Multipurpose powders, CO2, foam, water mist, sand.

Unsuitable extinguishing media

Full stream of water. Crushed water can be used to cool the containers near the fire.

5.2. Special hazards arising from the substance or mixture

Extremely flammable mixture. Incomplete combustion may result in hazardous gases (COx, NOx, hydrocarbons, etc.). Do not breathe fumes. At elevated temperatures, the container may be overpressured and burst. Vapors are heavier than air, accumulate in lower positions. When mixed with air, an explosive mixture may form. There is a risk of re-ignition.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Use non-sparking tools.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid entry of unauthorized persons, ensure escape area. Remove sources of heat and ignition, do not smoke, do not expose to direct sunlight. Use non-sparking tools, avoid electrostatic charge. Ensure adequate ventilation of the work area. Avoid breathing vapors. Avoid contact with skin and eyes - use personal protective equipment.

6.2. Environmental precautions

Ensure escape area, do not allow to enter into sewers, soil, surface and ground water. In the event of a large leak, monitor NPK concentrations or concentrations. TLV and inform the appropriate governmental authorities and the flow or sewerage manager.

6.3. Methods and material for containment and cleaning up

Aerosol vaporizes, ensure adequate ventilation. Avoid leakage of the liquid fraction, cover with non-combustible sorbent (sand, kieselguhr, earth, vermiculite, etc.). Store the used sorbent in a sealing waste container and dispose of as hazardous waste. Wash the contaminated area with water.

6.4. Reference to other sections

For recommended personal protective equipment, see Section 8. Dispose of unused product according to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the work area. Avoid generation of gases and vapors in flammable or explosive concentrations and concentrations exceeding the maximum allowable concentrations (NPK-P) for working atmosphere. Avoid contact with open fire and other sources of ignition. Protect from direct sunlight. Use non-sparking tools. Take precautionary measures against static discharges. Protect eyes and skin, do not breathe aerosol, use personal protective equipment according to section 8. Observe the applicable health and safety legislation. Observe the principles of hygiene with chemicals, do not eat, drink, smoke. Wash hands with warm soapy water before breaks, eating and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers at temperatures up to 50 ° C in dry, well-ventilated areas. Store away from sources of heat, protect from direct sunlight, do not smoke. Store away from food, drink and animal feed. Store separately as flammable. Observe general regulations on the storage of pressure containers. Follow the instructions on the label.

Packaging type	Aerosol can
Material of package	FE (40), Steel (Metals)
	
	FE
Storage temperature	max.50 °C

7.3. Specific end use(s)

It is not.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Czech Republic

Substance name (component)	Type	Time of exposure	Value	Note	Source
Hydrocarbons C7, n-alkanes, isoalkanes, cycloalkanes (CAS: 64742-49-0)	PEL	8 hours	400 mg/m³		9/2013
	NPK-P	15 minutes	1000 mg/m³		

Czech Republic

Substance name (component)	Type	Time of exposure	Value	Note	Source
isopropanol (CAS: 67-63-0)	PEL	8 hours	500 mg/m³	irritating to mucous membranes (eyes, respiratory system) and skin	Nařízení vlády 246/2018 Sb.
	PEL	8 hours	203,5 ppm	irritating to mucous membranes (eyes, respiratory system) and skin	
	NPK-P	15 minutes	1000 mg/m³	irritating to mucous membranes (eyes, respiratory system) and skin	
	NPK-P	15 minutes	407 ppm	irritating to mucous membranes (eyes, respiratory system) and skin	
carbon-dioxide (CAS: 124-38-9)	PEL	8 hours	9000 mg/m³		Nařízení vlády 246/2018 Sb.
	PEL	8 hours	5004 ppm		
	NPK-P	15 minutes	45000 mg/m³		
	NPK-P	15 minutes	25020 ppm		

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
carbon-dioxide (CAS: 124-38-9)	OEL	8 hours	9000 mg/m³		Commission Directive 2006/15/EC
	OEL	8 hours	5000 ppm		

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
isopropanol (CAS: 67-63-0)	WEL	8 hours	999 mg/m³		EH40/2005 Workplace exposure limits (Third edition, published 2018)
	WEL	8 hours	400 ppm		
	WEL	15 minutes	1250 mg/m³		

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
isopropanol (CAS: 67-63-0)	WEL	15 minutes	500 ppm		EH40/2005 Workplace exposure limits (Third edition, published 2018)
carbon-dioxide (CAS: 124-38-9)	WEL	8 hours	9150 mg/m³		EH40/2005 Workplace exposure limits (Third edition, published 2018)
	WEL	8 hours	5000 ppm		
	WEL	15 minutes	27400 mg/m³		
	WEL	15 minutes	15000 ppm		

DNEL

Hydrocarbons C7, n-alkanes, isoalkanes, cycloalkanes

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	2035 mg/m³	Systemic chronic effects	
Workers	Dermal	773 mg/kg/24hour	Systemic chronic effects	

isopropanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	500 mg/m³	Systemic chronic effects	
Workers	Dermal	888 mg/kg/24hour	Systemic chronic effects	

PNEC

isopropanol

Route of exposure	Value	Determining method
Microorganisms in wastewater treatment plants	2251 mg/l	
Freshwater environment	140.9 mg/l	
Seawater	140.9 mg/l	
Soil (agricultural)	28 mg/kg	
Freshwater sediment	552 mg/kg	

isopropanol

Route of exposure	Value	Determining method
Sea sediments	552 mg/kg	

8.2. Exposure controls

Ensure adequate ventilation or exhaustion of the work area. In case of exceeding the WEL, use suitable respiratory protection. Avoid contact with skin and eyes, do not breathe fumes. Follow hygienic precautions for handling chemicals. Do not eat, drink or smoke while working. Wash your hands with lukewarm water and soap before taking a break, eating and after work. Personal protective equipment should be adapted to the type of work.

Eye/face protection

Closed safety glasses.

Skin protection

Protective work clothing made of non-combustible material. Wash the affected skin, rub off clothing, wash before using it again. Protective gloves - When selecting the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Before testing for the first time, test at a specific workplace. Due to the nature of the mixture, the exact composition of the gloves can not be determined. Replace damaged gloves.

Respiratory protection

If the limit values are exceeded, in the case of an increased risk of inhalation and inadequate ventilation, use a mask with an organic vapor / aerosol filter type A. In case of accident or prolonged exposure, use an insulating respirator.

Thermal hazard

not available

Environmental exposure controls

not available

NOVATO®

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	spray
Physical state	liquid at 20°C
color	According to individual specifications
Odour	characteristic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	60 °C (Not applicable - this is an aerosol)
Flash point	-19 °C (Not applicable - this is an aerosol)
Evaporation rate	data not available
Flammability (solid, gas)	Flammable Class I.
Upper/lower flammability or explosive limits	
flammability limits	
bottom	0.9 %
upper	12 %
explosive limits	
bottom	0.9 %
upper	12 %
Vapour pressure	160 hPa at 20°C
Vapour density	data not available
Relative density	0.720 g / cm³ at 20 ° C
Solubility(ies)	
solubility in water	Slightly soluble to insoluble
solubility in fats	data not available
organic solvents	common organic solvents
Partition coefficient: n-octanol/water	data not available

	Auto-ignition temperature	>230 °C
	Decomposition temperature	data not available
	Viscosity	data not available
	Explosive properties	not available
	Oxidising properties	data not available

9.2. Other information

Density	data not available
ignition temperature	data not available
content of organic solvents (VOC)	690 g/l (=95.6%)
solid content (dry matter)	0.0 % volume

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 mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

No dangerous reactions known. When exposed to high temperatures, there is a risk of explosion of a pressure vessel. Solvent vapors may form explosive mixtures with air.

10.4. Conditions to avoid

Temperatures above 50 °C, contact with open fire, possible sources of ignition and hot surfaces, sparks, static electricity. Avoid formation of concentrations within the limits of explosivity.

10.5. Incompatible materials

Flammable materials, strong oxidizing agents, strong acids.

10.6. Hazardous decomposition products

Under normal conditions, the mixture is not decomposed. Incomplete combustion or thermal decomposition produces toxic products of combustion (COx, NOx, hydrocarbons, etc.).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation may result in mild irritation of the mucous membranes and respiratory tract. Vapor inhalation causes headaches, dizziness, malaise, fatigue and general weakness. The mixture irritates the eyes (redness, tearing, burning, inflammation of conjunctivae). Frequent or prolonged skin contact may cause dryness, cracking of the skin to dermatitis. Ingestion of the liquid fraction may cause abdominal pain and nausea.

Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

Hydrocarbons C7, n-alkanes, isoalkanes, cycloalkanes

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	>5840 mg/kg		Rat	
Dermal	LD50	>2920 mg/kg		Rabbit	
Inhalation	LC50	25.2 mg/l	4 hour	Rat	
Inhalation	LC50	193 mg/m³	4 hour	Rat	

isopropanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	5045 mg/kg		Rat	
Inhalation	LC50	72.6 mg/l	4 hour	Rat	
Dermal	LD50	13900 mg/kg		Rat	

Skin corrosion/irritation
The mixture is classified as irritating to skin, category 2. It irritates the skin.

Serious eye damage/irritation
Mixture is classified as eye irritant, category 2.

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.

Toxicity for specific target organ - single exposure
Mixture is classified as toxic for specific target organs after single exposure, category 3. Inhalation of vapors or aerosol may cause headache, drowsiness or dizziness, malaise to narcotic states.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity
Data for the mixture are not available.

Hydrocarbons C7, n-alkanes, isoalkanes, cycloalkanes

Parameter	Value	Time of exposure	Species	Environment
LC50	2200 mg/l	96 hour	Fishes (Pimephales promelas)	
EC50	4.3 mg/l	96 hour	Invertebrates (Daphnia magna)	
LC50	93-117 mg/l	96 hour	Fishes	
EC50	30-100 mg/l	72 hour	Algae	

isopropanol

Parameter	Value	Time of exposure	Species	Environment
EC50	>10 g/l	48 hour	Invertebrates (Daphnia magna)	
LC50	8970-9280 mg/l	48 hour	Fishes (Leuciscus idus)	
LC50	4200 mg/l	96 hour	Fishes	
LC50	903 mg/l	96 hour	Invertebrates (Crangon crangon)	

More information

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

The mixture is easily evaporated.

12.5. Results of PBT and vPvB assessment

Mixture does not meet the criteria for classification as PBT and vPvB.

12.6. Other adverse effects

The mixture is dangerous for the environment, even if small quantities can contaminate drinking water sources. Do not get into the ground, underground or surface water or sewers. Observe the usual precautions to protect the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal of the mixture: Dispose of as hazardous waste, dispose of it to the authorized person or to the hazardous waste collection yard. Dispose of residues of the mixture and the packaging in accordance with local waste disposal regulations. Suitable methods for disposal of contaminated packaging: Dispose of as hazardous waste according to local regulations. Uncontaminated packaging can be recycled.

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

14 06 03	other solvents and solvent mixtures *
20 01 13	Solvents *

Packaging waste type code

15 01 11	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers *
15 01 10	packaging containing residues of or contaminated by hazardous substances *

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

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SECTION 14: Transport information

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not available

14.5. Environmental hazards

No.

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

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

Can not be used.

Additional information

Always carry closed containers in upright position. Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

Hazard identification No.	
UN number	**1950**
Classification code	5F
Safety signs	2.1

Air transport - ICAO/IATA

Packaging instructions passenger	203
Cargo packaging instructions	203

Marine transport - IMDG

EmS (emergency plan)	F-D, S-U

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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

>=30 % aliphatic hydrocarbons

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

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

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic 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.

P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

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
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
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
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
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended.

Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

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)

Addition of registration numbers and related data, adjustment of composition.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.