SAFETY DATA SHEET

MOBIHEL Base MIX

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	28.11.2023	MAT0GA05_007 GE/EN	Date of first issue: 28.11.2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : MOBIHEL Base MIX

Manufacturer or supplier's details

Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.
Količevo 65
Domžale 1230
Slovenia

Telephone : 386 (1) 722 4383
Telefax : 386 (1) 722 4310
E-mail address Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

Emergency telephone number

Recommended use of the chemical and restrictions on use

Recommended use : Coatings and paints, thinners, paint removers

Restrictions on use : Reserved for industrial and professional use.

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 5

Acute toxicity (Dermal) : Category 5

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 1B

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS-Labelling

Hazard pictograms :

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H303 + H313 May be harmful if swallowed or in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Components

Chemical name	CAS-No.	Classification	MAC value mg/m3 / TSEL value	Concentration (% w/w)
n-butyl acetate	123-86-4	Flam. Liq.3; H226 Acute Tox.5; H313 STOT SE3; H336 (Central nervous system)	MPC-TWA: 50 mg/m3 Class 4 - Low hazard Data Source: RU OEL MPC-STEL: 200 mg/m3 Class 4 - Low hazard Data Source: RU OEL	>= 30 - < 50
butan-1-ol	71-36-3	Flam. Liq.3; H226 Acute Tox.4; H302 Acute Tox.5; H313 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335, H336 (Respiratory system, Central nervous system)	MPC-TWA: 10 mg/m3 Class 3 - Moderately dangerous Data Source: RU OEL MPC-STEL: 30 mg/m3 Class 3 - Moderately dangerous Data Source: RU OEL	>= 3 - < 10
cellulose acetate butyrate	9004-36-8		MPC-STEL: 10 mg/m3 Class 4 - Low hazard Data Source: RU OEL	>= 1 - < 10
butyl glycollate	7397-62-8	Flam. Liq.4; H227 Eye Dam.1; H318 Repr.2; H361	No data available	>= 3 - < 10
reaction mixture of ethylbenzene, m-xylene and p-xylene	1330-20-7	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2A;	MPC-TWA: 50 mg/m3 Class 3 - Moderately dangerous Data Source: RU OEL MPC-STEL: 150 mg/m3	>= 1 - < 10

		H319 STOT SE3; H335 (Respiratory system) STOT RE2; H373 Asp. Tox.1; H304	Class 3 - Moderately dangerous Data Source: RU OEL	
2-butoxyethyl acetate	112-07-2	Flam. Liq.4; H227 Acute Tox.4; H302 Acute Tox.4; H312 Aquatic Acute3; H402	No data available	>= 2,5 - < 10
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics	64742-49-0	Flam. Liq.3; H226 STOT SE3; H336 (Central nervous system) Asp. Tox.1; H304 Aquatic Chronic3; H412	No data available	>= 2,5 - < 10
(2-Methoxymethyleth-oxy)propanol	34590-94-8		No data available	>= 1 - < 10
2-methylpropan-1-ol	78-83-1	Flam. Liq.3; H226 Acute Tox.5; H303 Acute Tox.5; H313 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335, H336 (Respiratory system, Central nervous system)	MPC-STEL: 10 mg/m3 Class 3 - Moderately dangerous Data Source: RU OEL	>= 1 - < 3
Fatty acids, C14-18 and C16-18-unsatd., maleated	85711-46-2	Skin Irrit.2; H315 Skin Sens.1; H317	No data available	>= 0,1 - < 1
formaldehyde	50-00-0	Flam. Liq.4; H227 Acute Tox.3;	MPC-STEL: 0,5 mg/m3 Class 2 - Highly	>= 0,1 - < 1

		H301 Acute Tox.2; H330 Acute Tox.3; H311 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Muta.2; H341 Carc.1B; H350 STOT SE3; H335 (Respiratory system)	dangerous, Allergens, Substances which require special skin and eye protection Data Source: RU OEL	

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed	:	May be harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging fertility or the unborn child.
Notes to physician	:	Treat symptomatically.

5. FIREFIGHTING MEASURES

Flammable properties

Flash point	:	26 °C Method: ISO 3679, closed cup
Ignition temperature	:	343 °C
Upper explosion limit / Upper flammability limit	:	11,3 %(V)
Lower explosion limit / Lower flammability limit	:	1,2 %(V)
Flammability (solid, gas)	:	Static-accumulating flammable liquid.
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame-ters / Permissible concentration	Basis
n-butyl acetate	123-86-4	MPC-TWA (vapour and/or gas)	50 mg/m3	RU OEL
	Further information: Class 4 - Low hazard			
		MPC-STEL (vapour and/or gas)	200 mg/m3	RU OEL
	Further information: Class 4 - Low hazard			
		STEL	150 ppm 723 mg/m3	2019/1831/EU
		TWA	50 ppm 241 mg/m3	2019/1831/EU
butan-1-ol	71-36-3	MPC-TWA (vapour and/or gas)	10 mg/m3	RU OEL
	Further information: Class 3 - Moderately dangerous			
		MPC-STEL (vapour and/or gas)	30 mg/m3	RU OEL
	Further information: Class 3 - Moderately dangerous			
cellulose acetate butyrate	9004-36-8	MPC-STEL (aerosol)	10 mg/m3	RU OEL
	Further information: Class 4 - Low hazard			
reaction mixture of ethylben-zene, m-xylene and p-xylene	1330-20-7	MPC-TWA (vapour and/or gas)	50 mg/m3	RU OEL
	Further information: Class 3 - Moderately dangerous			
		MPC-STEL (vapour and/or gas)	150 mg/m3	RU OEL
	Further information: Class 3 - Moderately dangerous			
		TWA	50 ppm 221 mg/m3	2000/39/EC
		STEL	100 ppm 442 mg/m3	2000/39/EC
2-butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m3	2000/39/EC
		STEL	50 ppm 333 mg/m3	2000/39/EC
(2-Methoxymethyleth-oxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m3	2000/39/EC
2-methylpropan-1-ol	78-83-1	MPC-STEL (vapour	10 mg/m3	RU OEL

		and/or gas)		
	Further information: Class 3 - Moderately dangerous			

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374
butyl-rubber (> 0,6 mm; < 240 min); DIN EN374
Viton® (> 0,6 mm; < 240 min); DIN EN374
PE laminate (> 0,1 mm; < 240 min); DIN EN374

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Different colour shades

Odour : solvent-like

Odour Threshold : No data available

pH	:	Not applicable
Melting point/freezing point	:	-78,0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	118 °C (calculation method (principal components, lowest value))
Flash point	:	26 °C Method: ISO 3679, closed cup
Flammability (solid, gas)	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	11,3 %(V)
Lower explosion limit / Lower flammability limit	:	1,2 %(V)
Vapour pressure	:	< 1.100 hPa (50 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,915 - 1,145 g/cm3
Solubility(ies)		
Water solubility	:	immiscible, partly soluble
Solubility in other solvents	:	Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	:	log Pow: 1,81
Auto-ignition temperature	:	343 °C
Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
Viscosity		
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)
Flow time	:	80 - 90 s (20 °C) Cross section: 4 mm Method: DIN 53211
Explosive properties	:	Not applicable
Oxidizing properties	:	Sustains combustion

10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Incompatible with strong acids and bases.
Hazardous decomposition products	:	Adequate ventilation is required. Heating can release vapours which can be ignited. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

May be harmful if swallowed or in contact with skin.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 4.706 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 3.732 mg/kg Method: Calculation method

Components:

n-butyl acetate:

Acute oral toxicity	:	LD50 Oral (Rat): >= 10.760 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): >= 5.000 mg/kg

butan-1-ol:

Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion. LD50 Oral (Rat): > 2.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Acute oral toxicity : LD50 Oral (Rat): >= 8.700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 27,14 mg/l
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact withskin.

2-butoxyethyl acetate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 Oral (Rat): >= 2.400 mg/kg

Acute inhalation toxicity : LC50 (Rat): >= 50 mg/l
Exposure time: 2 h
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact withskin.

LD50 (Rabbit): >= 1.500 mg/kg

(2-Methoxymethylethoxy)propanol:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

2-methylpropan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): >= 2.460 mg/kg

Acute dermal toxicity : LD50 (Rabbit): >= 3.400 mg/kg

formaldehyde:

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single con-

tact with skin.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

butan-1-ol:

Result : irritating

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Result : irritating

2-methylpropan-1-ol:

Result : irritating

Fatty acids, C14-18 and C16-18-unsatd., maleated:

Result : irritating

formaldehyde:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

butan-1-ol:

Result : Corrosive

butyl glycollate:

Result : Corrosive

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Result : Eye irritation

2-methylpropan-1-ol:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : Causes sensitisation.

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated:

Result : Probability or evidence of skin sensitisation in humans

formaldehyde:

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

formaldehyde:

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects

Carcinogenicity

May cause cancer.

Components:

formaldehyde:

Carcinogenicity - Assessment : Possible human carcinogen

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

butyl glycollate:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility,and/or on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

butan-1-ol:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment : May cause respiratory irritation.

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:

Assessment : May cause drowsiness or dizziness.

2-methylpropan-1-ol:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

formaldehyde:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Assessment : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

May be fatal if swallowed and enters airways.

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

n-butyl acetate:

Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l
		EC50 (Desmodesmus subspicatus (green algae)): >= 647,7 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	IC50 (Tetrahymena pyriformis): 356 mg/l Exposure time: 40 h

butan-1-ol:

Toxicity to fish	:	LC50 (Fish): > 1.000 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia (water flea)): > 1.000 mg/l
Toxicity to microorganisms	:	EC50 (Bacteria): > 1.000 mg/l

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Toxicity to fish	:	LC50 (Fish): >= 1 - 10 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia (water flea)): >= 1 - 10 mg/l
Toxicity to microorganisms	:	EC50 (Bacteria): >= 1 - 100 mg/l

2-butoxyethyl acetate:

Toxicity to fish	:	LC50 (Fish): >= 31 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia (water flea)): >= 142,5 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	EC50 (Bacteria): >= 2.800 mg/l

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2-methylpropan-1-ol:

Toxicity to fish : LC50 (Fish): > 100 mg/l
Exposure time: 96 h

Persistence and degradability

Components:

n-butyl acetate:

Biodegradability : Result: Biodegradable
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d pH: 8
Remarks: Hydrolyses slowly.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Biodegradability : Remarks: Readily biodegradable.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

2-butoxyethyl acetate:

Biodegradability : Result: Biodegradable

2-methylpropan-1-ol:

Biodegradability : Result: Biodegradable

Bioaccumulative potential

Components:

n-butyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 15
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,81

butan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 0,785

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Bioaccumulation : Bioconcentration factor (BCF): 25,9

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2,77 - 3,15

2-butoxyethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 1,51

(2-Methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: -0,064

2-methylpropan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 0,79

formaldehyde:

Partition coefficient: n-octanol/water : log Pow: 0,35

Mobility in soil

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Distribution among environmental compartments : Koc: 537, log Koc: 2,73
Remarks: Moderately mobile in soils
The product evaporates from soil.

Stability in soil : Dissipation time: 23 d
Percentage dissipation: 50 % (DT50)

Other adverse effects

Product:

Additional ecological information : No data available

Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
n-butyl acetate 123-86-4	MPC - maximum: 0,1 mg/m3 Limiting health hazard indicator: reflectory	MPC: 0,3 Milligrams per cubed decimeter Limiting health hazard indicator:	No data available	List 1 List 4 List 5

	Hazard class: Class 4 - low hazard	sanitary and toxicological effects Hazard class: 4 MAC: 0,1 mg/l Limiting health hazard indicator: general sanitary Hazard class: Class 4 - low hazard		
butan-1-ol 71-36-3	MPC - maximum: 0,1 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous	MPC: 0,03 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 MPC: 0,5 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 4 MAC: 0,1 mg/l Limiting health hazard indicator: sanitary-toxicological Hazard class: Class 2 - highly dangerous	No data available	List 1 List 4 List 5
cellulose acetate butyrate 9004-36-8	TSEL: 0,15 mg/m3	No data available	No data available	List 2
reaction mixture of ethylbenzene, m-xylene and p-xylene 1330-20-7	MPC - maximum: 0,2 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous MPC - average chronic: 0,1 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class	MAC: 0,05 mg/l Limiting health hazard indicator: organoleptic; changes the smell of water Hazard class: Class 3 - moderately dangerous	MPC: 0,3 mg/kg Limiting health hazard indicator: Translocation	List 1 List 4 List 7

	3 - moderately dangerous			
(2-Methoxymethyleth-oxy)propanol 34590-94-8	No data available	MPC: 1 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 3	No data available	List 5
2-methylpropan-1-ol 78-83-1	MPC - maximum: 0,1 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	MPC: 2,4 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 4 MAC: 0,15 mg/l Limiting health hazard indicator: sanitary-toxicological Hazard class: Class 2 - highly dangerous	No data available	List 1 List 4 List 5
formaldehyde 50-00-0	MPC - average: 0,01 mg/m3 Limiting health hazard indicator: Reflectory-resorptive Hazard class: Class 2 - highly dangerous MPC - maximum: 0,05 mg/m3 Limiting health hazard indicator: Reflectory-resorptive Hazard class: Class 2 - highly dangerous MPC - average chronic: 0,003 mg/m3 Limiting health hazard indicator: Reflectory-resorptive Hazard class: Class 2 - highly dangerous	MPC: 0,25 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 4 MPC: 0,1 mg/l formaldehyde Limiting health hazard indicator: toxic Hazard class: 4 MPC: 0,1 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 MPC: 0,05 mg/l formaldehyde Limiting health	MPC: 7 mg/kg Limiting health hazard indicator: Air-migration	List 1 List 4 List 5 List 7

		hazard indicator: toxic Hazard class: 3 MAC: 0,05 mg/l Limiting health hazard indicator: sanitary-toxicological Hazard class: Class 2 - highly danger-ous		

For explanation of abbreviations see section 16.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3

IATA-DGR

UN/ID No.	:	UN 1263
Proper shipping name	:	Paint
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355

IMDG-Code

UN number	:	UN 1263
Proper shipping name	:	PAINT
Class	:	3
Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Full text of H-Statements

H226	Flammable liquid and vapour.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Muta.	:	Germ cell mutagenicity
Repr.	:	Reproductive toxicity
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2019/1831/EU	:	Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
RU OEL	:	SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2019/1831/EU / TWA	:	Limit Value - eight hours
2019/1831/EU / STEL	:	Short term exposure limit
RU OEL / MPC-STEL	:	Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	:	Maximum Permissible Concentration - Time Weighted Average
List 1	:	SanPiN 1.2.3685-21 Table 1.1, Table 1.10, & Table 1.11 Maximum permissible concentration (MPC) in the air of urban and rural settlements
List 2	:	SanPiN 1.2.3685-21 Table 1.2, Table 1.12 & Table 1.13 Tentative Safe Exposure Levels (TSEL) in the air of urban and rural settlements
List 4	:	SanPiN 1.2.3685-21 Table 3.13, Table 3.15, Table 3.16 & Table 3.17 Maximum permissible concentrations (MPC) of chemicals in the water of drinking systems of centralized, including hot, and non-centralized water supply, water of underground and surface water bodies of domestic drinking and cultural and domestic water use, water of swimming pools, water parks
List 5	:	Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"
List 7	:	SanPiN 1.2.3685-21 Table 4.1, Table 4.2, Table 4.7, Table 4.8, Table 4.9 & Table 4.10 Maximum allowable concentration (MPC) and approximate allowable concentration (APC) of chemicals in the soil

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-

ing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GE / EN	
Material codes (bulk) for which the SDS is valid	366923; 366935; 366971; 400207; 400262; 401108; 401924; 401951; 401983; 418200; 418201; 418202; 418203; 418204; 418205; 418206; 418207; 418208; 418209; 418210; 418211; 418212; 418213; 418214; 418215; 418216; 418217; 418218; 418219; 418220; 418221; 418222; 418223; 418224; 418225; 418226; 418227; 418228; 418229; 418230; 418231; 418232; 418233; 418234; 418235; 418236; 418237; 418238; 418239; 418241; 418242; 418243; 418244; 418245; 418246; 418247; 418248; 418249; 418250; 418251; 418252; 418253; 418255; 418445; 418446; 418479; 418480; 418481; 418482; 418485; 418486; 418923; 418924; 419220; 419223; 419593; 419844; 419845; 419846; 419847; 419848; 419849; 478654; 478964; 478984; 479010; 479019; 479020; 480909; 481596; 481598