

MOBIHEL 2K HS HARDENER 4300

Version
1.1

Revision Date:
25.02.2026

SDS Number:
MAT000477749
JO/EN

Date of last issue: 28.11.2023
Date of first issue: 28.11.2023

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

1.1 Product identifier

Trade name : MOBIHEL 2K HS HARDENER 4300

Product code : 47774903

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

Use of the Sub-
stance/Mixture : PC9a: Coatings and paints, thinners, paint removers

Recommended restrictions
on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

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

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

1.4 Emergency telephone number

Emergency telephone number: 911

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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Specific target organ toxicity - single exposure, Category 3, Respiratory system
Long-term (chronic) aquatic hazard, Category 3

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist or vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Hexamethylene-di-isocyanate, polymer
2-butoxyethyl acetate
Hydrocarbons, C9 aromatics
hexamethylene-di-isocyanate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hexamethylene diisocyanate, oligomers	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 50 - < 70
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312	>= 10 - < 20
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 10 - < 20
Hydrocarbons, C9 aromatics	- 918-668-5 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2.5 - < 10
solvent naphtha (petroleum), light aromatic	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2.5 - < 10
hexamethylene diisocyanate	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319	< 0.1

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		Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
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 give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.
Harmful if inhaled.
May cause respiratory irritation.
- May cause an allergic skin reaction.
Harmful if inhaled.
May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.

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

Personal precautions : 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.

6.2 Environmental precautions

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.

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6.3 Methods and material for containment and cleaning up

Methods for 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).

6.4 Reference to other sectionsSee sections: 7, 8, 11, 12 and 13.

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

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.
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.

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.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

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Specific use(s) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hexamethylene-diisocyanate, polymer	28182-81-2	TWA	0.01 mg/m ³ (NCO)	98/24/EC I
		STEL	0.02 mg/m ³ (NCO)	98/24/EC I
2-butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m ³	2000/39/EC
		STEL	50 ppm 333 mg/m ³	2000/39/EC
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m ³	2019/1831/EU
		TWA	50 ppm 241 mg/m ³	2019/1831/EU
hexamethylene-diisocyanate	822-06-0	TWA	0.01 mg/m ³ (NCO)	98/24/EC I
		STEL	0.02 mg/m ³ (NCO)	98/24/EC I

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Hexamethylene-diisocyanate, polymer	Workers	Inhalation	Long-term local effects	0.5 mg/m ³
	Workers	Inhalation	Long-term systemic effects	1 mg/m ³
2-butoxyethyl acetate	Workers	Inhalation	Long-term systemic effects	333 mg/m ³
	Consumers	Oral	Long-term systemic effects	86 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	169 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	120 mg/kg

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	Consumers	Dermal	effects	bw/day
	Consumers	Dermal	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	72 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	36 mg/kg bw/day
ethyl 3-ethoxypropionate	Workers	Inhalation	Long-term systemic effects	610 mg/m ³
	Workers	Inhalation	Long-term local effects	610 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	72.6 mg/m ³
	Consumers	Inhalation	Long-term local effects	72.6 mg/m ³
	Workers	Dermal	Long-term local effects	102 mg/cm ²
	Workers	Dermal	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	24.2 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.2 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Acute systemic effects	600 mg/m ³
	Workers	Inhalation	Acute local effects	600 mg/m ³
	Workers	Inhalation	Long-term systemic effects	48 mg/m ³
	Workers	Inhalation	Long-term local effects	300 mg/m ³
	Consumers	Inhalation	Acute systemic effects	300 mg/m ³
	Consumers	Inhalation	Acute local effects	300 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	12 mg/m ³
	Consumers	Inhalation	Long-term local effects	35.7 mg/m ³
	Consumers	Dermal	Long-term systemic effects	3.4 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	11 mg/kg bw/day

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Hydrocarbons, C9 aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Oral	Long-term systemic effects	150 mg/m3
	Consumers	Inhalation	Long-term exposure	32 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	11 mg/kg bw/day
hexamethylene-di-isocyanate	Workers	Inhalation	Long-term systemic effects	0.035 mg/m3
	Workers	Inhalation	Acute systemic effects	0.07 mg/m3
	Workers	Inhalation	Long-term local effects	0.035 mg/m3
	Workers	Inhalation	Acute local effects	0.07 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Hexamethylene-di-isocyanate, polymer	Soil	505 mg/kg dry weight (d.w.)
	Marine water	0.01 mg/l
	Fresh water	0.1 mg/l
	Marine sediment	253 mg/kg dry weight (d.w.)
	Fresh water sediment	2530 mg/kg dry weight (d.w.)
	Sewage treatment plant Intermittent use/release	100 mg/l 1 mg/l
2-butoxyethyl acetate	Soil	0.415 mg/kg dry weight (d.w.)
	Marine water	0.0304 mg/l
	Fresh water	0.304 mg/l
	Marine sediment	0.203 mg/kg dry weight (d.w.)
	Fresh water sediment	2.03 mg/kg dry weight (d.w.)

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	Sewage treatment plant	90 mg/l
	Intermittent use/release	0.56 mg/l
ethyl 3-ethoxypropionate	Soil	0.048 mg/kg dry weight (d.w.)
	Marine water	0.00609 mg/l
	Fresh water	0.0609 mg/l
	Marine sediment	0.0419 mg/kg dry weight (d.w.)
	Fresh water sediment	0.419 mg/kg dry weight (d.w.)
	Sewage treatment plant	50 mg/l
	Intermittent use/release	0.609 mg/l
n-butyl acetate	Soil	0.0903 mg/kg dry weight (d.w.)
	Marine water	0.018 mg/l
	Fresh water	0.18 mg/l
	Marine sediment	0.0981 mg/kg dry weight (d.w.)
	Fresh water sediment	0.981 mg/kg dry weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Intermittent use/release	0.36 mg/l
hexamethylene-di-isocyanate	Soil	0.0026 mg/kg dry weight (d.w.)
	Marine water	0.00774 mg/l
	Fresh water	0.0774 mg/l
	Marine sediment	0.001344 mg/kg dry weight (d.w.)
	Fresh water sediment	0.01334 mg/kg dry weight (d.w.)
	Sewage treatment plant	8.42 mg/l
	Intermittent use/release	0.774 mg/l

8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Gloves : | Viton® (> 0,6 mm; < 240 min); ISO EN374 |
| PE laminate (> 0,1 mm; < 240 min); ISO 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

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cuts, abrasion, and the contact time.

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

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 : Organic vapour type (A)

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

Physical state : liquid

Form : liquid

Colour : in accordance with the product description

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 : 126 °C (calculation method (principal components, lowest value))

Flash point : 50 °C

Flammability : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper flammability limit : 10.1 %(V)
(calculation method (principal components, highest value))

Lower explosion limit / Lower flammability limit : 1.2 %(V)
(calculation method (principal components, highest value))

Relative vapour density : No data available

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Relative density	:	No data available
Density	:	1.04 g/cm ³
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 (calculation method (principal components, highest value))
Ignition temperature	:	280 °C (calculation method (principal components, highest value))
Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
Viscosity	:	
Viscosity, kinematic	:	> 20.5 mm ² /s (40 °C)
Explosive properties	:	Not applicable
Oxidizing properties	:	Sustains combustion

9.2 Other information

No data available	:	
VOC	:	(Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)) 46.15 %

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

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Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and bases.

10.6 Hazardous decomposition productsNo hazardous decomposition products are known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Harmful if inhaled.
Harmful if inhaled.**Product:**Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate: 15.35 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method**Components:****Hexamethylene-di-isocyanate, polymer:**

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

2-butoxyethyl acetate:

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

LD50 Oral (Rat): \geq 2,400 mg/kgAcute inhalation toxicity : LC50 (Rat): \geq 50 mg/l
Exposure time: 2 h

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Test atmosphere: vapour

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

LD50 (Rabbit): $\geq 1,500$ mg/kg**n-butyl acetate:**Acute oral toxicity : LD50 Oral (Rat): $\geq 10,760$ mg/kgAcute dermal toxicity : LD50 (Rabbit): $\geq 5,000$ mg/kg**Hydrocarbons, C9 aromatics:**Acute dermal toxicity : LD50 (Rabbit): $> 3,160$ mg/kg**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**Acute oral toxicity : LD50 Oral (Rat): $> 2,000$ mg/kgAcute inhalation toxicity : LC50 (Rat): > 5 mg/l
Test atmosphere: vapourAcute dermal toxicity : LD50 (Rabbit): $> 2,000$ mg/kg**hexamethylene-di-isocyanate:**

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

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

Skin corrosion/irritation

Not classified based on available information.

Not classified due to lack of data.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Not classified due to lack of data.

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

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Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:**Hexamethylene-di-isocyanate, polymer:**

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Not classified due to lack of data.

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Carcinogenicity

Not classified based on available information.

Not classified due to lack of data.

Components:**Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified based on available information.

Not classified due to lack of data.

STOT - single exposure

May cause respiratory irritation.

May cause respiratory irritation.

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Components:

Hexamethylene-di-isocyanate, polymer:

Assessment : May cause respiratory irritation.

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

Hydrocarbons, C9 aromatics:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.
Not classified due to lack of data.

Aspiration hazard

Not classified based on available information.
Not classified due to lack of data.

Components:

Hydrocarbons, C9 aromatics:

May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Solvents may degrease the skin.

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SECTION 12: Ecological information**12.1 Toxicity****Components:****2-butoxyethyl acetate:**Toxicity to fish : LC50 (Fish): ≥ 31 mg/l
Exposure time: 96 hToxicity to daphnia and other : LC50 (Daphnia (water flea)): ≥ 142.5 mg/l
aquatic invertebrates Exposure time: 48 hToxicity to microorganisms : EC50 (Bacteria): $\geq 2,800$ mg/l**n-butyl acetate:**Toxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l
plantsEC50 (Desmodesmus subspicatus (green algae)): ≥ 647.7
mg/l
Exposure time: 72 hToxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l
Exposure time: 40 h**Hydrocarbons, C9 aromatics:**Toxicity to fish : LC50 (Fish): ≥ 9.2 mg/l
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia (water flea)): ≥ 3.2 mg/l
aquatic invertebrates Exposure time: 48 h**Ecotoxicology Assessment**

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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:Toxicity to fish : LC50 (Fish): $> 1 - 10$ mg/lToxicity to daphnia and other : LC50 (Daphnia (water flea)): $> 1 - 10$ mg/l
aquatic invertebratesToxicity to microorganisms : EC50 (Bacteria): $> 1 - 10$ mg/l

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Ecotoxicology Assessment

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

12.2 Persistence and degradability**Components:****2-butoxyethyl acetate:**

Biodegradability : Result: Biodegradable

n-butyl acetate:Biodegradability : Result: Biodegradable
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD Test Guideline 301DStability in water : Degradation half life: 78 d
pH: 8
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

12.3 Bioaccumulative potential**Components:****2-butoxyethyl acetate:**Partition coefficient: n-
octanol/water : log Pow: 1.51**n-butyl acetate:**Bioaccumulation : Bioconcentration factor (BCF): 15
Bioaccumulation is unlikely.Partition coefficient: n-
octanol/water : log Pow: 1.81**Hydrocarbons, C9 aromatics:**Partition coefficient: n-
octanol/water : log Pow: < 4**12.4 Mobility in soil****Components:****Hydrocarbons, C9 aromatics:**

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Mobility : Medium: Air
Content: 92.9 %

: Medium: Water
Content: 3.5 %

: Medium: Soil
Content: 1.9 %

: Medium: Sediment
Content: 1.8 %

Distribution among environmental compartments : Koc: 1.71 - 14.70
Mobile in soils

The product is insoluble and floats on water.

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

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

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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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.

SECTION 14: Transport information**14.1 UN number**

ADN : UN 1263
ADR : UN 1263
RID : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

ADN : PAINT
ADR : PAINT
RID : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 3	

14.4 Packing group

ADN
Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

ADR
Packing group : III
Classification Code : F1

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Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards**ADN**

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 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.

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

Not applicable for product as supplied.

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A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information**Full text of H-Statements**

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H411	: Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
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
98/24/EC I	: Europe. Chemical Agents Directive - Annex I: Binding occupational exposure limit values
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2019/1831/EU / TWA	: Limit Value - eight hours

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2019/1831/EU / STEL : Short term exposure limit
 98/24/EC I / STEL : Limit values Short-term
 98/24/EC I / TWA : Limit values 8 hours

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 Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - 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

Further information**Classification of the mixture:**

Flam. Liq. 3	H226
Acute Tox. 4	H332
Skin Sens. 1	H317
STOT SE 3	H335
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

SAFETY DATA SHEET



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