

MOBIHEL 2K thinner 2300Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
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 thinner 2300

Product code : 416723

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : PC9a: Coatings and paints, thinners, paint removersRecommended 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.



Specific target organ toxicity - single ex-
posure, Category 3, Central nervous
system H336: May cause drowsiness or dizziness.

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H226 H336	Flammable liquid and vapour. May cause drowsiness or dizziness.
Supplemental Hazard Statements	:	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	<p>Prevention:</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing mist or vapours.</p> <p>Response:</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>Storage:</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p>	

Hazardous components which must be listed on the label:

n-butyl acetate
2-ethoxy-1-methylethyl acetate

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.

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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)	>= 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	>= 20 - < 30
2-ethoxy-1-methylethyl acetate	54839-24-6 259-370-9 603-177-00-8 01-2119475116-39	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30

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 : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- 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.

MOBIHEL 2K thinner 2300

Version
2.0

Revision Date:
25.02.2026

SDS Number:
MAT000416723
JO/EN

Date of last issue: 21.06.2024
Date of first issue: 28.11.2023

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 drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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.

MOBIHEL 2K thinner 2300Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

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

Personal precautions : 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.

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 sections

See 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.
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.

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.

MOBIHEL 2K thinner 2300

Version 2.0	Revision Date: 25.02.2026	SDS Number: MAT000416723 JO/EN	Date of last issue: 21.06.2024 Date of first issue: 28.11.2023
----------------	------------------------------	--------------------------------------	---

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.

7.3 Specific end use(s)

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
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
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

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

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Acute systemic effects	600 mg/m ³
			Acute local effects	600 mg/m ³
	Workers	Inhalation	Long-term systemic effects	48 mg/m ³
			Long-term local effects	300 mg/m ³
	Consumers	Inhalation	Acute systemic effects	300 mg/m ³
			Acute local effects	300 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	12 mg/m ³

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

	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
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 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

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

Substance name	Environmental Compartment	Value
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
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.)

MOBIHEL 2K thinner 2300

Version 2.0	Revision Date: 25.02.2026	SDS Number: MAT000416723 JO/EN	Date of last issue: 21.06.2024 Date of first issue: 28.11.2023
----------------	------------------------------	--------------------------------------	---

	Sewage treatment plant	90 mg/l
	Intermittent use/release	0.56 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 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	:	-89.0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	126 °C (calculation method (principal components, lowest value))
Flash point	:	23 °C
Evaporation rate	:	No data available

MOBIHEL 2K thinner 2300Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

Flammability	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	9.8 %(V) (calculation method (principal components, highest value))
Lower explosion limit / Lower flammability limit	:	1 %(V) (calculation method (principal components, highest value))
Vapour pressure	:	< 1,100 hPa (calculation method (principal components, highest value)) (50 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.909 g/cm ³
Solubility(ies)		
Water solubility	:	immiscible, partly soluble
Solubility in other solvents	:	No data available
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 used 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

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

livestock rearing emissions (integrated pollution prevention and control))
100 %

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.
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 products

No hazardous decomposition products are known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Not classified based on available information.
Not classified due to lack of data.**Product:**Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation methodAcute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023**Components:****n-butyl acetate:**Acute oral toxicity : LD50 Oral (Rat): $\geq 10,760$ mg/kgAcute dermal toxicity : LD50 (Rabbit): $\geq 5,000$ mg/kg**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): ≥ 50 mg/l
Exposure time: 2 h
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**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.

Not classified due to lack of data.

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified based on available information.

Not classified due to lack of data.

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023**Carcinogenicity**

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

Reproductive toxicity

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

STOT - single exposure

May cause drowsiness or dizziness.
May cause drowsiness or dizziness.

Components:**n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

2-ethoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

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.

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.

SECTION 12: Ecological information**12.1 Toxicity****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

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l
Exposure time: 40 h**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**12.2 Persistence and degradability****Components:****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.

2-butoxyethyl acetate:

Biodegradability : Result: Biodegradable

12.3 Bioaccumulative potential**Components:****n-butyl acetate:**Bioaccumulation : Bioconcentration factor (BCF): 15
Bioaccumulation is unlikely.Partition coefficient: n- : log Pow: 1.81
octanol/water**2-butoxyethyl acetate:**Partition coefficient: n- : log Pow: 1.51
octanol/water

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

2-ethoxy-1-methylethyl acetate:Partition coefficient: n-
octanol/water : log Pow: 0.76**12.4 Mobility in soil**

No data available

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 : No data available

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

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

ADN : UN 1263

ADR : UN 1263

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

RID : UN 1263

IMDG : UN 1263

IATA : UN 1263

14.2 UN proper shipping name

ADN : PAINT RELATED MATERIAL

ADR : PAINT RELATED MATERIAL

RID : PAINT RELATED MATERIAL

IMDG : PAINT RELATED MATERIAL

IATA : Paint related material

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
 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

MOBIHEL 2K thinner 2300

Version 2.0 Revision Date: 25.02.2026 SDS Number: MAT000416723
JO/EN

Date of last issue: 21.06.2024
Date of first issue: 28.11.2023

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.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance.

MOBIHEL 2K thinner 2300

Version
2.0Revision Date:
25.02.2026SDS Number:
MAT000416723
JO/ENDate of last issue: 21.06.2024
Date of first issue: 28.11.2023

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.
 H302 : Harmful if swallowed.
 H312 : Harmful in contact with skin.
 H332 : Harmful if inhaled.
 H336 : May cause drowsiness or dizziness.

Full text of other abbreviations

Acute Tox. : Acute toxicity
 Flam. Liq. : Flammable liquids
 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
 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

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

SAFETY DATA SHEET



MOBIHEL 2K thinner 2300

Version
2.0

Revision Date:
25.02.2026

SDS Number:
MAT000416723
JO/EN

Date of last issue: 21.06.2024
Date of first issue: 28.11.2023

Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

Further information

Classification of the mixture:

Flam. Liq. 3 H226
STOT SE 3 H336

Classification procedure:

Based on product data or assessment
Calculation method

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