



MOBIHEL 2K clearcoat matt low VOC

Revision No.:1
Revision Date:20/05/08**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product name: MOBIHEL 2K clearcoat matt low VOC
Item code: 70564
Product general name: Lacquer based on acrylic binders and organic solvents.
Producer/supplier: HELIOS Tovarna barv, lakov in umetnih smol Količevo, d.o.o.
Količevo 65, 1230 DOMŽALE, SLOVENIJA
tel. +386 1 722 4000, fax. +386 1 722 4040
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Emergency phone : In case of health hazard, consult a private or a doctor on duty. For additional information please call phone number +386 (1) 722 4381 (INDOK dept.).

2. HAZARDS IDENTIFICATION

Hazards designation: Flammable.
Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. Harmful by inhalation and in contact with skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Polymer-based coatings (paints and lacquers), dispersed or dissolved in non water media.

It contains the following health and environment hazardous ingredients:

Chemical name:	Conc.(%):	CAS. No.:	EC No.:	Index No.:	Symbol:	R- phrases:
n-butyl acetate	25-50	123-86-4	204-658-1	607-025-00-1		R67 R66 R10
Xylene	10-25	1330-20-7	215-535-7	601-022-00-9	Xn	R38 R20/21 R10
Solvent naphtha (petroleum), light aromatic	2.5-10	64742-95-6	265-199-0	649-356-00-4	Xn N	R65 R37 R51/53 R10 R67 R66
2-methoxy-1-methylethyl acetate	1.0-2.5	108-65-6	203-603-9	607-195-00-7	Xi	R36 R10
mixture of benzotriazol	< 1.0	104810-48-2	400-830-7	607-176-00-3	N	R51/53 R43
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<0.5	41556-26-7	255-437-1	-	N	R43 R51/53
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	<0.5	82919-37-7	280-060-4	-	N	R51/53 R43
naphtha (petroleum), hydrodesulfurized heavy	<0.5	64742-82-1	265-185-4	649-330-00-2	Xn N	R65 R67 R66 R51/53

4. FIRST AID MEASURES

Symptoms caused by excessive exposure: Dizziness, nausea, vomiting, difficult breathing, irritation of skin or eyes. In case of these symptoms, seek medical help and show this data sheet.

In case of excessive inhalation: Breathe fresh air. Rest. Do not eat or drink until the symptoms disappear.

In case of ingestion: Do not eat. Drink only water. Do not induce vomiting.

In case of contact with skin and clothes: Remove contaminated clothes. Wash skin with water and soap. Do not use organic solvents or thinners.

In case of contact with eyes: Rinse with plenty of water for at least 15 minutes and seek medical help.

5. FIRE-FIGHTING MEASURES

Preventive measures: Remove all possible sources of fire, e.g. open flame, lit cigarette, sparks from tools and equipment. Always keep containers closed.

Fire extinguishers: Foam, powder, CO₂, to a limit also water spray.

Fire extinguishing measures: Put out fire in the direction of the wind. Spray non-burning containers with water, prevent product leakage and move containers to a safe space. In case of fire, health damaging gases and soot may appear. The use of a respiratory mask with filter A is recommended.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid possible sources of ignition (fire, lit cigarette, sparks, etc.). Protect respiratory system against inhalation of vapours. Provide good ventilation.

Environmental precautions: Do not allow spilling into water, watercourses, cellars, caves or drains and the accumulation of vapours in closed rooms.

Methods of cleaning up: Absorb and mix the spilled product with soil, sand or any other absorbent material for liquids. Dispose the mixture to a deposit site for special or dangerous waste or burn in the incinerator.

7. HANDLING AND STORAGE

Handling: During handling the product ventilate the area.
Follow valid regulations on the emission of dangerous substances into the environment (par. 12) and explosion points (par. 9).
Follow safety at work regulations.
Keep containers tightly closed. Store in places out of reach of unskilled people. Do not eat, drink or smoke while using the product.

Storage: Store in accordance with the regulations on the storage of flammable and other dangerous substances.
Do not store with food or fodder. Keep in a tightly closed container in dry and ventilated storage, follow the instructions on the label.
Packaging should be marked with an original product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection: Adjust safety protection to the product application technology. Use materials resistant to organic solvents (rubber, special plastic). Use only spark-free tools.

Respiratory protection: Provide such ventilation at the site of use so that the concentration of solvent vapours present in product will not exceed the threshold limit value (TLV).

The prescribed of threshold limit value (TLV) hazardous substances in the work place atmosphere according to the Regulations on the safety of employees and protection against chemical substance exposure at work (German TRGS 900):

Chemical name	CAS No.	TLV (mg/m ³)
n-Butyl acetate	123-86-4	480
Xylene	1330-20-7	221
Solvent naphtha (petroleum), light aromatic	64742-95-6	100
2-Methoxy-1-methylethyl acetate	108-65-6	275
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	600

Hand protection: Use materials resistant to organic solvents (rubber, special plastic). Always wear protective gloves.

Eye protection: Wear safety goggles, face protection when spraying.

Skin protection: Wear safety clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Colorless to pale amber
Odour:	Specific for organic solvents
pH:	N.A.
Boiling point:	126 °C n-butyl acetate
Flash point:	32°C ISO 3679
Ignition point:	370 °C n-butyl acetate
Density (kg/l):	0.99-1.03 ISO 2811
Viscosity:	DIN4 20°C 90 - 100 s
Explosion limits lower (vol. %):	1.1
Explosion limits upper (vol.%):	6.6
Vapour pressure (Pa/20°C):	1066 n-Butyl acetate
Contents of dry substance (wt. %):	49-52
Solubility in water:	Insoluble

10. STABILITY AND REACTIVITY

Stability: The product is stable under the normal handling, storage and use conditions. Keep tightly closed in the original packaging.

Incompatibility: Not reactive and compatible with the majority of usual substances, except for extreme oxidants. Keep tightly closed in the original packaging.

11. TOXICOLOGICAL INFORMATION

Inhalation: Long inhalation of the organic solvents present in product in concentration, which exceeds the declared threshold limit value (TLV) (Chap. 8), may irritate the mucous

tissue of respiratory system and even affect the normal functioning of liver, kidney and central nervous system.

Ingestion: At the ingestion the product may cause tissue damages in digestive tract.

Contact with skin: Long and intensive contact with skin may cause the skin to become dry.

Contact with eyes: Product drops or its vapours in high concentrations may cause irritation of eyes.

The symptoms of the product's effects on the human body are stated in Chapter 4.

Chemical name:	CAS No.	LC50 inhalation	LD50 - Oral	LD50 Dermal
n-Butyl acetate	123-86-4		Oral LD50 Rat = 14000 mg/kg	Dermal LD50 Rabbit = 5000 mg/kg
Xylene	1330-20-7	Inhalation LC50 (4h) Rat = 6350 mg/l	Oral LD50 Rat = 8700 mg/kg	
Solvent naphtha (petroleum), light aromatic	64742-95-6	Inhalation LC50 Rat > 5 mg/l	Oral LD50 Rat > 2000 mg/kg	
2-Methoxy-1-methylethyl acetate	108-65-6	Inhalation LC50 Rat > 5 mg/l	Oral LD50 Rat > 2000 mg/kg	
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	Inhalation LC50 Rat > 5 mg/l	Oral LD50 Rat > 2000 mg/kg	

12. ECOLOGICAL INFORMATION

The product contains 48-51 % of volatile organic substances.

In nature the product is not easily bio-degradable. The product should not be spilled in the ground, water, watercourses, drains and the cleaning device.

The recommended degradation method is the use of the high temperature incinerator.

Chemical name	CAS No.	Ecotoxicity conc.:
n-Butyl acetate	123-86-4	Aquatic LC50 (96h) fish = 184 mg/l Aquatic LC50 (96h) Daphnia = 18 mg/l Aquatic LC50 bacteriae > 1000 mg/l
Xylene	1330-20-7	Aquatic LC50 fish = 1 - 10 mg/l Aquatic LC50 Daphnia = 1 - 10 mg/l Aquatic LC50 bacteriae = 10 - 100 mg/l
Solvent naphtha (petroleum), light aromatic	64742-95-6	Aquatic LC50 fish = 1 - 10 mg/l Aquatic LC50 Daphnia = 1 - 10 mg/l Aquatic LC50 bacteriae = 1 - 10 mg/l
2-Methoxy-1-methylethyl acetate	108-65-6	Aquatic LC50 (96h) fish = 100 - 180 mg/l Aquatic LC50 (48h) Daphnia > 500 mg/l
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	Aquatic LC50 fish = 1 - 10 mg/l Aquatic LC50 Daphnia = 1 - 10 mg/l Aquatic LC50 bacteriae = 1 - 10 mg/l

13. DISPOSAL CONSIDERATIONS

Contaminated products: The product leftovers , waste and useless packaging should be handled in accordance with the Regulations on processing of special and dangerous waste (dir. 91/689/EEC, dir. 2000/532/EC).

Waste classification number: 08 01 11
Waste hazardous characteristic: H5 ; H3-B

The recommended degradation method is the use of the controlled high temperature incineration or disposal to the deposits for dangerous substances.

Contaminated packaging: In case the metal packaging can not be reused, it will be recycled in the ironworks or disposed at special deposits (dir. 94/62/EC, dir. 1999/177/EC).

14. TRANSPORT INFORMATION

Transport by road/by railway - ADR/RID:

UN No: 1263 PAINTS (640 E)
Class: 3 Flammable liquids
Packing group: III
Symbol of hazard: 3
Hazard number: 30

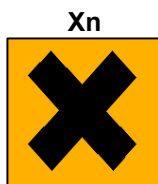
Transport by sea – IMDG:

UN No: 1263
Class: 3.3
Page: 3372
Label: 3

Note: In case a product is transported in the packaging units smaller than 450 l, it will not be classified as dangerous according to ADR/RID, in accordance with the concession 2.2.3.1.5.

15. REGULATORY INFORMATION

Labelling:



HARMFUL

Contains: xylene ; mixture of benzotriazol
the mixture of sterically composed sebacates May produce an allergic reaction.

R-phrases:

R 10 Flammable.
R 20/21 Harmful by inhalation and in contact with skin.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 66 Repeated exposure may cause skin dryness or cracking.
R 67 Vapours may cause drowsiness and dizziness.

S-phrases:

S 16 Keep away from sources of ignition - No smoking.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 51 Use only in well-ventilated areas.
S 61 Avoid release to the environment. Refer to special instructions/safety data sheet.

FOR PROFESSIONAL USE ONLY!

Regulations: This safety data sheet has been prepared according to the Directive 67/548, 88/379, 92/32, 99/45.

16. OTHER INFORMATION

Meaning of R sentences from the Chapter 2:

R 10	Flammable.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.
R 20/21	Harmful by inhalation and in contact with skin.
R 38	Irritating to skin.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 37	Irritating to respiratory system.

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