

**SAFETY DATA SHEET according to regulation EU1907/2006
(REACH)**

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CHROMIND Clear base

Revision No.:6
Revision Date:17.10.13

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product	CHROMIND Clear base
Item code(s):	471085

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

Use, scope:	Car refinishing- Basecoats The product is intended for professional application.
Restrictions on use	No restrictions known.

1.3. Details of the supplier of the safety data sheet

Producer	HELIOS Tovarna barv, lakov in umetnih smol Količevo d.o.o. Količevo 65, 1230 DOMŽALE, SLOVENIJA tel. +386 1 722 40 00, fax. +386 1 722 43 10
Responsible person	Matija Podobnik, e-mail: matija.podobnik@helios.si

1.4. Emergency telephone number

Phone	In case of health hazard, consult a private or a doctor on duty. For additional information please call phone number +386 (1) 722 4383 HSE dept.).
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2. Hazards identification

2.1. Classification of the substance or mixture

Classification (EU 1272/2008)

Categories of danger	Serious Eye Damage/Eye Irritation 1 Skin Corrosion/Irritation 2 Reproductive Toxicity 2 Flammable Liquid 3 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure 3 Hazardous to the aquatic environment - Chronic 3
Hazard phrases (H-phrases)	H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness. H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. H412 - Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.

Classification (EU 1999/45)

Health	Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Risk of serious damage to eyes.
Environment	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Physical-chemical	Flammable.

2.2. Label elements

Labelling (EU 1999/45)

Health	Environment	Physical-chemical
Xi 		
Irritant	/	/

- R 10** Flammable.
R 41 Risk of serious damage to eyes.
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 16 Keep away from sources of ignition - No smoking.
S 37/39 Wear suitable 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.

EU 1272/2008:



Signal Word	Danger
Hazard phrases (H-phrases)	H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness. H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. H412 - Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements:	P201 - Obtain special instructions before use. P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the

	environment. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+P313 - IF exposed or concerned: Get medical advice/attention.
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2.3. Other hazards

	Product contains organic solvents.
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3. Composition/information on ingredients

3.2. Mixtures

Chemical composition:	Mixture acrylic binders and organic solvents.
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Chemical Name	Concentration [weight %]	CAS EINECS EU INDEX	Classification (EU 1999/45)	Classification (REGULATION (EC) No. 1272/2008)
n-butyl acetate	25-50	123-86-4 204-658-1 607-025-00-1	R10 R66 R67	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066
naphtha (petroleum), hydrodesulfurized heavy	10-25	64742-82-1 265-185-4 649-330-00-2	N; R51/53 R66 R67 Xn; R65 R10 Note P	Flam. Liq. 3; H226 STOT SE 3; H336 Asp.Tox.1; H304 Aquatic Chronic 2; H411 EUH066
1-ethoxypropan-2-ol	10-25	1569-02-4 - 603-177-00-8	R10 R67	Flam. Liq. 3; H226 STOT SE 3; H336
1-butanol	10-25	71-36-3 200-751-6 603-004-00-6	R10 Xn; R22 Xi; R37/38 Xi; R41 R67	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335,H336
xylene	2,5-10	1330-20-7 215-535-7 601-022-00-9	R10 Xn; R20/21 Xi; R38 Xn; R65	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Asp.Tox.1; H304
butyl glycollate	2,5-10	7397-62-8 230-991-7 -	Xi; R41 Xn; R63	Eye Dam. 1; H318 Repr. 2; H361 FD
Notes:	Note P: weight % of benzene in substance is lower than 0,1 wgt. %, there is no carcinogenic classification The classification for the product was made on basis of actual content of components. The contained substances are shown in intervals. In case of inspection check (control of classification) we are ready to send to inspection bodies on their request the actual content of individual components.			

4. First aid measures

4.1. Description of first aid measures

In case of excessive inhalation:	If there are any symptoms transfer the victim to clean air.
In case of contact with skin:	Remove contaminated clothing. Wash skin with soap and water. Do not use organic solvents or thinners.
In case of contact with eyes:	With clean fingers space the eyelids and direct water in the eyes (with moderate and lukewarm water jet) and rotate the eyes so that water reaches all parts of the eye. In case of eye or tearing seek medical help.
In case of ingestion:	Do not eat. Rinse mouth with water. Do not induce vomiting.

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

In case of excessive inhalation:	No data.
In case of contact with skin:	Prolonged exposure (contact) with the product causes loss of fat in the skin which can cause inflammation of the skin.
In case of contact with eyes:	Redness, tearing and irritation at sensitive persons. Burning and stinging in the eyes and eyelids, tearing, distorted view, corneal opacity and permanent damage to the iris.
In case of ingestion:	In the case of large ingested amounts of product, sensitive individuals may experience nausea, vomiting and diarrhea.

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

	No data available
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5. Firefighting measures

5.1. Extinguishing media

Fire Extinguishing Media:	SUITABLE: Foam, powder, carbon dioxide, inert gas or INERGEN FM 200 (started phase fire fighting), water fog. UNSUITABLE: Water jet, unless USED ONLY for water mist to cool containers with flammable products. Remove all possible sources of ignition: open flame, lit cigarette, sparkling of tools and equipment. Close packagings with product.
Unsuitable extinguishing media:	Open water jet

5.2. Special hazards arising from the substance or mixture

Specific methods of extinguishing fire:	Extinguish fire in wind direction. Cool down vessels with product, which do not burn with dispersed water, prevent leakage of the product and place them in a safety place. The possibility of formation of harmful gases and thick smoke during the fire. The use of protective mask with filter A is mandatory.
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5.3. Advice for firefighters

Special equipment to protect firefighters:	Independent fire extinguisher on compressed air, a full fire-fighting equipment to protect the body.
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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:	Remove possible sources of ignition (flame, lit cigarette, sparking etc.). Protect respiratory system against inhalation of vapours. Provide good ventilation.
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6.2. Environmental precautions

Environmental precautions:	Prevent leakage into water, water dams, cellars, caves or sewage system. Prevent outflow into water, water dams, cellars, caves or sewage system and vapour accumulation in closed rooms.
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6.3. Methods and material for containment and cleaning up

Methods of cleaning up:	Absorb the outflow product and mix it with soil, sand or other absorptive materials for liquids. Leave waste to the authorized waste collectors.
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7. Handling and storage

7.1. Precautions for safe handling

Personal precautions:	At the use product vapours may produce flammable/explosive mixtures of vapours and air. During the pumping static electrification may occur. Emptying of static electrification, which could cause fire. At the decanting of larger quantities assure conductivity with binding and earthing of complete equipment. Prevent contact with hot objects, sparkles, flame and sources of ignition.
Advice on safe handling:	Do not smoke, drink or eat while handling the product. Do not breathe vapors, avoid contact with skin and eyes. At work wear cotton overalls or coveralls, nitrile rubber gloves and safety glasses with side shields.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and conditions:	SUITABLE: Store in tightly closed vessels in a cool and ventilated room. Prevent the formation of static electrification. UNSUITABLE: Storage in the room together with chemicals (oxidants, acids) may cause fire. In the warehouse there should be no tools or machines, which are the source of sparking. Store in an upright position.
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7.3. Specific end use(s)

Packaging materials:	RECOMMENDED: Use a metal-protected packaging. UNSUITABLE: long-term storage can not use butyl, nitrile and natural rubbers. Because of the possibility of forming explosive atmosphere (vapours), DO NOT CUT empty packaging with sparking tools.
Storage Class:	3A (German VCI Guideline)

8. Exposure controls/personal protection

8.1. Control parameters

The prescribed of threshold limit value (TLV) for occupational exposure to hazardous substances in the atmosphere post the Regulation on the safety of employees from risks against chemical substance exposure at work:

Chemical Name	TLV (mg/m ³)
n-butyl acetate	480
naphtha (petroleum), hydrodesulfurized heavy	600
1-butanol	300
xylene	221

8.2. Exposure controls

Respiratory protection:	When used in confined spaces, prolonged work, wear protective mask for the whole face with filter "A". In case that the oxygen concentration in the air of work room falls under 17 %, use independent respirator with an open circle on the compressed air.
Hand protection:	At several contacts with the product use gloves made of nitril rubber with thickness 0,40 mm, in contact with drops of product (minor contacts) the gloves made of nitril rubber of thickness 0,11 mm.
Eye protection:	At the low concentrations in the air wear protective goggles, at high concentrations the protective mask for the whole face.
Skin protection:	In normal conditions wear clothes made of cotton and suitable footwear. In case the possibility of outflow is high, use the clothes and footwear resistant to chemicals (PVC, rubber).

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	Liquid
Colour:	Colorless
Odour:	Specific for organic solvents
pH:	N.A.
Boiling point:	118 °C; 1-butanol ; computational method, based on component data
Flash point:	23 (°C); ISO 3679:2004, closed cup
Ignition point:	255 °C; 1-ethoxypropan-2-ol ; computational method, based on component data
Density (kg/l):	1 ISO 2811
Viscosity:	DIN4 20°C 15 s
Kinematic viscosity:	> 21 mm ² /s, 40 °C
Explosion limits lower (vol. %):	0.7
Explosion limits upper (vol.%):	12 ; computational method, based on component data

Vapour pressure (Pa/20°C):	1066 n-butyl acetate
9.2. Other information	
Contents of dry substance (wt. %):	8.7
Solubility in water:	Insoluble
Volatile Organic Solvents (kg/kg of products; in terms of EU 1999/13):	0.8349
Total Organic Carbon (kg/kg product, volatile phase):	0.589

10. Stability and reactivity

10.1. Reactivity

Reactivity:	Stable - when used in accordance with the instructions.
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10.2. Chemical stability

Stability:	The product is stable under conditions in accordance with the instructions and proper storage.
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10.3. Possibility of hazardous reactions

Hazardous conditions:	The presence of open flame or hazardous materials. Avoid contact of product with heat, sparks, flames and other ignition sources.
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10.4. Conditions to avoid

Unwanted conditions:	No data available
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10.5. Incompatible materials

Incompatibility:	The product is non-reactive and compatible with majority of substances, except with extreme oxidants. Keep the product in the original packaging. Do not mix with other products.
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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity and evaluation of acute toxicity:

ORAL	4402 mg/kg	
DERMAL	22539 mg/kg	
INHALATIONAL	225 mg/l	Method: Calculation method

Acute effects:

Irritation:

Skin:	Yes.
Eyes:	Yes.
Inhalation routes:	Yes, at more sensitive individuals.

Hypersensitivity:

Skin:	No data.
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Eyes:	No effect.
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Chronic effects:

Effects of repeated exposure:	None data known.
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12. Ecological information

12.1. Toxicity

Ecotoxicity - Data on components:	The product contains components that are harmful to fish and aquatic environment.
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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
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
1-butanol	71-36-3	Aquatic LC50 fish > 1000 mg/l Aquatic LC50 Daphnia > 1000 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

12.2. Persistence and degradability

Biodegradation	No data available
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12.3. Bioaccumulative potential

Bioconcentration:	No data available
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12.4. Mobility in soil

Mobility	No data
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12.5. Results of PBT and vPvB assessment

PBT and vPvB:	No data available
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12.6. Other adverse effects

Ecotoxicity - Data on components:	Based on the classification of components, product may have adverse effects on the environment.
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13. Disposal considerations

13.1. Waste treatment methods

Product:	<p>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).</p> <p>Waste classification number: 08 01 11 Waste hazardeous characteristic: H3-B</p> <p>The recommended dgradation method is the use of the controlled high temperature incineration or disposal to the deposits for dangerous substances.</p>
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:


14.1. UN number	1263
14.2. UN proper shipping name	PAINTS
14.3. Transport hazard class(es)	3
14.4. Packing group	III
Label:	
Hazard number:	30
Tunnel restriction code:	(D/E)
Limited quantities:	 packages: inner: =< 5 units; outer: =< 30 units

Transport by sea – IMDG:

14.1. UN number	1263
14.2. UN proper shipping name	PAINTS
14.3. Transport hazard class(es)	3
14.4. Packing group	III

Label:	
Instructions for emergency EmS:	F-E, S-E
Marine pollutant:	No

Air transport (IATA):

14.1. UN number	1263
14.2. UN proper shipping name	PAINTS
14.3. Transport hazard class(es)	3
14.4. Packing group	III
Label:	

15. Regulatory information

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

This Safety Data Sheet has been prepared in accordance with a comprehensive chemicals legislation - REACH Regulation on chemicals and the Regulation for classification, labeling and packaging (CLP/GHS).

The product due to its (hazardous properties falls under the law of Major Accident Hazard (EU 96/82 - Seveso), is classified in category of this Regulation.

16. Other information

The importance of R and H phrases from Chapter 3:

- R 10 Flammable.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 65 Harmful: may cause lung damage if swallowed.
- R 22 Harmful if swallowed.
- R 37/38 Irritating to respiratory system and skin.
- R 41 Risk of serious damage to eyes.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 38 Irritating to skin.
- R 63 Possible risk of harm to the unborn child.

H226 - Flammable liquid and vapour.
H336 - May cause drowsiness or dizziness.
H304 - May be fatal if swallowed and enters airways.
H411 - Toxic to aquatic life with long lasting effects.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H312+H332 - Harmful if in contact with skin or inhaled.
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

The information in this Safety Data Sheet refer only to the mentioned product in the form as delivered and it is not necessary valid when this material is used in the combination with other materials or in the processes, which are not foreseen in the instructions for use. This information is correct to the supplier's best of knowledge and reliable at the time of the publication of this Safety data sheet. It is the user's responsibility to ascertain the suitability of the product for a specific use.

The data in this Safety data sheet do not prove the quality of the product, they are only the instructions for the safe use of the product with the user.

In case of non-compliance with the measures or incorrect use of the product , stated in the Safety data sheet we do not accept any responsibility for the consequences.