

**SAFETY DATA SHEET according to regulation EC 1907/2006
(REACH) and its updates**

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CHROMODEN 2K PU PARQUET LACQUER SATIN

 Revision No.:/ 2
 First Revision Date: 14-07-17
 Revision Date:20-04-20
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1. Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Product	CHROMODEN 2K PU PARQUET LACQUER SATIN
Item code(s):	477155 Note: The following material codes are codes, without packaging, safety data sheet applies to all packages of those codes.

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

Use, scope:	Products for consumer consumption adhesives and parquet lacquers The product is used in consumer and professional use.
Restrictions on use	No restrictions known.

1.3. Details of the supplier of the safety data sheet

Producer	CHROMOS - Boje i lakovi d.d. Radnička cesta 173D 10000 Zagreb - Hrvatska Tel.: + 385 1 241 0666, Fax.: + 385 1 240 5512
Responsible person	Ljiljana Zgrebec e-mail: ljiljana.zgrebec@chromos.eu

1.4. Emergency telephone number

Phone	In case of a health hazard call a personal doctor or doctor on duty. Additional information are available on the phone No.++385/(0)1/2410666.
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2. Hazards identification
2.1. Classification of the substance or mixture

Classification (EU 1272/2008)

Categories of danger	Flammable Liquid 2 Serious Eye Damage/Eye Irritation 2 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure 3
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2.2. Label elements

EU 1272/2008:



Signal Word	Danger
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Contains:	4-methylpentan-2-one; n-butyl acetate
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	May produce an allergic reaction.
Hazard phrases (H-phrases):	H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements:	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P501 - Dispose of contents/container to authorized disposal organisation.

2.3. Other hazards

	Product contains organic solvents. EUH066 Repeated exposure may cause skin dryness or cracking.
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3. Composition/information on ingredients

3.2. Mixtures

Chemical Name	Concentration [weight %]	CAS EINECS EU INDEX REACH reg.no.	Classification (REGULATION (EC) No. 1272/2008) Notes
4-methylpentan-2-one	10-19,99	108-10-1 203-550-1 606-004-00-4 01-2119473980-30	STOT SE 3; H335 Eye Irrit.2; H319 Acute Tox. 4; H332 Flam. Liq. 2; H225
n-butyl acetate	10-19,99	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	STOT SE 3; H336 Flam. Liq. 3; H226
2-methoxy-1-methylethyl acetate	3,0-4,99	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	STOT SE 3; H336 Flam. Liq. 3; H226
fatty acids, C14-18 and C16-18-unsatd., maleated	0,1- 0,49	85711-46-2 288-306-2 - 01-2119976378-19	Skin Sens. 1; H317 Skin Irrit. 2; H315

Notes:	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.
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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:	Flush eyes with water to remove product residue.

In case of ingestion:	Do not eat. Rinse mouth with water. Do not induce vomiting.
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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.
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, sparking 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.
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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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6.4. Reference to other sections

Disposal of waste - Chapter 13, personal protective equipment - Chapter 8.

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.
Storage Class:	3 (German VCI Guideline)

7.3. Specific end use(s)	No further relevant information available.
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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:

Data on components:

Chemical Name	TLV (mg/m ³)	TLV (ml/m ³ , PPM)	STL	Note
4-methylpentan-2-one	83	20	2	BAT EU
n-butyl acetate	480	100	1	Y
2-methoxy-1-methylethyl acetate	275	50	2	K EU

Biological limit values for components:

Chemical Name	Characteristic indication Biological sample Sampling time Biological limit values
4-methylpentan-2-one	4-methylpentan-2-one urine after working shift 3.5 mg/l

DNEL = Derived No Effect Level

Component Data:

Chemical Name	Population Exposure Effects Values (units)
4-methylpentan-2-one	Consumers Longterm oral Systemic effects 4.2 mg/kg/bw/day
n-butyl acetate	Workers Shortterm inhalational Systemic effects 600 mg/m ³ Workers Shortterm inhalational Local effects 600 mg/m ³ Workers Longterm inhalational Systemic effects 48 mg/m ³ Workers Longterm inhalational Local effects 300 mg/m ³ Consumers Shortterm inhalational Systemic effects 300 mg/m ³ Consumers Shortterm inhalational Local effects 300 mg/m ³ Consumers Longterm inhalational Systemic effects 12 mg/m ³

	<p>Consumers Longterm inhalational Local effects 35.7 mg/m3 Consumers Longterm dermal Systemic effects 3.4 mg/kg/bw/day Consumers Shortterm dermal Systemic effects 6 mg/kg/bw/day Consumers Longterm oral Systemic effects 2 mg/kg/bw/day Consumers Shortterm oral Systemic effects 2 mg/kg/bw/day Workers Longterm dermal Systemic effects 7 mg/kg/bw/day Workers Shortterm dermal Systemic effects 11 mg/kg/bw/day</p>
2-methoxy-1-methylethyl acetate	<p>Workers Longterm inhalational Systemic effects 275 mg/m3 Workers Shortterm inhalational Local effects 550 mg/m3 Workers Longterm dermal Systemic effects 796 mg/kg/bw/day Consumers Longterm inhalational Systemic effects 33 mg/m3 Consumers Longterm inhalational Local effects 33 mg/m3 Consumers Longterm dermal Systemic effects 320 mg/kg/bw/day Consumers Longterm oral Systemic effects 36 mg/kg/bw/day</p>
fatty acids, C14-18 and C16-18-unsatd., maleated	<p>Workers Longterm dermal Systemic effects 3.33 mg/kg/bw/day Consumers Longterm dermal Systemic effects 1.67 mg/kg/bw/day Consumers Longterm oral Systemic effects 1.67 mg/kg/bw/day</p>

PNEC = Predicted No Effect Concentration

Component Data:

Chemical Name	Media detail Values
4-methylpentan-2-one	<p>Fresh water = 0.6 mg/l Sea water = 0.06 mg/l Cleaning device = 27.5 mg/l Sediment in fresh water = 8.27 mg/kg dry weight Sediment in sea water = 0.83 mg/kg dry weight Earth = 1.3 mg/kg dry weight</p>
n-butyl acetate	<p>Fresh water 0.18 mg/l Sea water 0.018 mg/l intermittent releases 0.36 mg/l Cleaning device 35.6 mg/l Sediment in fresh water 0.981 mg/kg dry weight Sediment in sea water 0.098 mg/kg dry weight Earth 0.09 mg/kg dry weight</p>
2-methoxy-1-methylethyl acetate	<p>Fresh water = 0.635 mg/l intermittent releases = 0.006 mg/l Sea water = 0.064 mg/l Cleaning device = 100 mg/l Sediment in fresh water = 3.29 mg/kg dry weight Sediment in sea water = 0.329 mg/kg dry weight Earth = 0.29 mg/kg dry weight</p>
fatty acids, C14-18 and C16-18-unsatd., maleated	<p>Cleaning device = 100 mg/l</p>

8.2. Exposure controls

Respiratory protection:	<p>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.</p>
Hand protection:	<p>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.</p>
Eye protection:	<p>At the low concentrations in the air wear protective goggles, at high concentrations the protective mask for the whole face.</p>
Skin protection:	<p>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).</p>

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Appearance:	Liquid
(b) Odour:	No data available
(c) Odour threshold:	Product components have a high limit of odor detection.
(d) pH:	No data available
e) Melting point/freezing point:	- 78 °C ; computational method, based on component data ; n-butyl acetate
(f) Initial boiling point and boiling range:	114 - 117 °C ; computational method, based on component data ; 4-methylpentan-2-one
(g) Flash point:	14 °C ; computational method, based on component data ; 4-methylpentan-2-one
(h) Evaporation rate:	5.8 (carbon tetrachloride = 1) 1 (n-butyl acetate = 1) ; computational method, based on component data ; n-butyl acetate
(i) Flammability (solid, gas):	Highly flammable liquid and vapour.
(j) Upper/lower flammability or explosive limits:	1.2 8 ; computational method, based on component data
(k) Vapour pressure:	13 hPa pri 20 °C n-butyl acetate
(l) Vapour density:	4 (air = 1) n-butyl acetate
(m) Relative density(kg/l):	ISO 2811
(n) Solubility(ies):	Negligible; 0-1%
(o) Partition coefficient: n-octanol/water:	; computational method, based on component data n-butyl acetate (23 °C): 1.81
(p) Auto-ignition temperature:	425 °C ; computational method, based on component data ; n-butyl acetate
(q) Decomposition temperature:	No data
(r) Viscosity:	DIN 53015 23°C 25 - 38
Kinematic viscosity:	> 21 mm ² /s, 40 °C
(s) Explosive properties:	Product is not explosive. However, formation of explosive steam/air mixtures is possible.
(t) Oxidising properties:	No data
9.2. Other information	
Solids content: (calculated, %)	min 57
Organic solvents (wght. %)	40.60
Water content: (calculated, %)	0.09

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
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	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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10.6. Hazardous decomposition products

	No data available
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11. Toxicological information**11.1. Information on toxicological effects****(a) acute toxicity:**

ORAL	None data known.
DERMAL	None data known.
INHALATIONAL	Product contains components which may have harmful effects at contact after inhalation of vapour, mists or gas and may cause troubles to more sensitive individuals. Such components are: ; computational method, based on component data 4-methylpentan-2-one
Special precautionary measures:	Wash hands thoroughly after handling. Do no eat, drink or smoke when using this product.

Data on components:

Chemical Name	LC50 inhalation	Oral LD50	Dermal LD50
4-methylpentan-2-one	LC50-4 hours Rat 8 mg/l	OLD50 Rat 2080 mg/kg	D LD50 Rabbit > 16000 mg/kg
n-butyl acetate	LC50-4 hours Rat 390 ppm	OLD50 Rat 14 mg/kg	D LD50 Rabbit > 17600 mg/kg
2-methoxy-1-methylethyl acetate		OLD50 Rat 8532 mg/kg	D LD50 Rabbit > 5 g/kg

(b) skin corrosion/irritation:

Skin:	Product contains components which may have harmful effects at contact with skin and may cause troubles to more sensitive individuals.
Special precautionary measures:	If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water.

(c) serious eye damage/irritation:

Eyes:	Causes serious eye irritation.
Special precautionary measures:	If eye irritation persists: Get medical advice/attention.

(d) respiratory or skin sensitisation:

Skin:	Product contains components which may cause skin sensitivity and may cause problems to some individuals.
Special precautionary measures:	Wear protective gloves/protective clothing/eye protection/face protection.

measures:	
(e) germ cell mutagenicity:	
Exposure to product:	None data known.
Special precautionary measures:	Product does not contain components classified as mutagenic.
(f) carcinogenicity:	
Exposure to product:	None data known.
Special precautionary measures:	Product does not contain components classified as cancerogenic.
(g) reproductive toxicity:	
Exposure to product:	None data known.
Special precautionary measures:	Product does not contain components classified as being reprotoxic.
(h) STOT-single exposure:	
Exposure to product:	May cause drowsiness or dizziness.
Special precautionary measures:	Use only outdoors or in a well-ventilated area.
(i) STOT-repeated exposure:	
Special precautionary measures:	Product does not contain components classified as causing harmful effect to organs on repeated or prolonged exposure.
(j) aspiration hazard:	
INHALATIONAL	None data known.
Special precautionary measures:	Product does not contain any components known to have aspiration hazards.

12. Ecological information

12.1. Toxicity

Ecotoxicity - Data on components:	Product (based on the data component) is not classified as dangerous for the environment.
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Chemical Name	Ecotoxicity conc.
4-methylpentan-2-one	Aquatic LC50 fish = 100 - 1000 mg/l Aquatic LC50 Daphnia = 100 - 1000 mg/l Aquatic LC50 bacteriae = 100 - 1000 mg/l
n-butyl acetate	EC 50, 48 h: Daphnia = 44 mg/l Aquatic LC50 (96h) Primephales minnows, flow test, OECD 203 Test Guidance = 18 mg/l NOEC: Desmodesmus subspicatus, development rate > 200 mg/l EC 50, 72 h: Desmodesmus subspicatus, development rate = 647.7 mg/l IC50_40 Tetrahymena pyriformis = 356 mg/l
2-methoxy-1-methylethyl acetate	Aquatic LC50 (96h) fish = 100 - 180 mg/l Aquatic LC50 (48h) Daphnia > 500 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

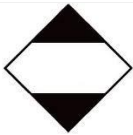
Ecotoxicity - Data on components:	Based on the classification of components, product is not recognised to have adverse effects on the environment.
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13. Disposal considerations**13.1. Waste treatment methods**

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 hazardous characteristic: H3-A</p> <p>The recommended degradation 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:	Transport by sea – IMDG:	Air transport (IATA):
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	II	II	II
Label:			
Hazard number:	33	33	33
Tunnel restriction code:	(D/E)		

Limited quantities:	 <p>packages: inner: =< 5 units; outer: =< 30 units</p>		
Instructions for emergency EmS:		F-E, S-E	
14.5. Environmental hazards	No	No	No
14.6. Special precautions for user	Transport with respecting transport labels and the requests of transportation legislation.		
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable		

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 is under the scope of Directive (EU 2004/42), "DECO VOC". Under the terms of directive, the product is classified into: A.j - Two-pack reactive performance coatings for specific end use such as floors, solvent-borne coatings (SB) 500 g/l

15.2. Chemical safety assessment

Has not been conducted.

16. Other information

The importance of H phrases from Chapter 3:

H317 - May cause an allergic skin reaction.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H226 - Flammable liquid and vapour.

H335 - May cause respiratory irritation.

H332 - Harmful if inhaled.

H319 - Causes serious eye irritation.

H225 - Highly flammable liquid and vapour.

Changes from previous revisions:	Changes to the sheet were made in section: 2., 3., 8., 9., 11., 12., 14., 15., 16.
Literature / Data Sources:	Supplier's / manufacturer's safety data, references to toxicological databases.

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.