



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

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TESSAROL enamel

Revision No.:7/ 9
First Revision Date: 30-11-10
Revision Date:13-06-17
Print Date:29-01-18

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

1.1. Product identifier

Product	TESSAROL enamel
Item code(s):	470526, 470527, 470528, 470529, 470530, 470531, 470532, 470533, 477819, 477820, 477821, 477822, 477823, 477824, 477825, 477826, 477827, 477828, 477829, 477830, 477831, 477832, 477833, 477834, 477843, 477844, 480874, 480875, 480876, 480877 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:	Top coating - enamel The product is used in consumer and professional use.
Use:	Suitable for application with spraying, brush and roller.
Restrictions on use	No restrictions known.

1.3. Details of the supplier of the safety data sheet

Producer	HELIOS TBLUS d.o.o. Količevo 65 • 1230 Domžale, Slovenija T +386 1 722 40 00 F +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	Flammable Liquid 3 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure 3
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2.2. Label elements

EU 1272/2008:



Signal Word	Warning
Contains:	2-butanone oxime; derivative of propanoic acid (CAS 1259547-09-5) May produce an allergic reaction.
Hazard phrases (H-phrases):	H226 - Flammable liquid and vapour. H336 - May cause drowsiness or dizziness.
Precautionary statements:	P101 - If medical advice is needed, have product container or label at hand. 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 composition:	Enamel based on alkyd binder and pigments in organic solvents.		
Chemical Name	Concentration [weight %]	CAS EINECS EU INDEX REACH reg.no.	Classification (REGULATION (EC) No. 1272/2008) Notes
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	20-29,99	- 919-857-5 - 01-2119463258-33	Asp.Tox.1; H304 STOT SE 3; H336 Flam. Liq. 3; H226
naphtha (petroleum), hydrotreated heavy	1,0-2,99	64742-48-9 265-150-3 649-327-00-6 01-2119457273-39	Asp.Tox.1; H304 P
2,6-dimethylheptan-4-one	1,0-2,99	108-83-8 203-620-1 606-005-00-X 01-2119474441-41	STOT SE 3; H335 Flam. Liq. 3; H226
2-butanone oxime	0,5-0,99	96-29-7 202-496-6 616-014-00-0 01-2119539477-28	Carc. 2; H351 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 4; H312
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, comps. with polyethylene glycol hydrogen maleate C9-11-alkyl ethers	0,1- 0,49	1259547-09-5 - -	Skin Sens. 1; H317

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Notes:	P: weight % of benzene in substance is lower than 0,1 wght. %, there is no carcinogenic classification.
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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.

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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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:	3A (German VCI Guideline)

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.
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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/m3)	TLV (ml/m3, PPM)	STL	Note
naphtha (petroleum), hydrotreated heavy	1200			
2,6-dimethylheptan-4-one	290	50		

Biological limit values for components:

Chemical Name	Characteristic indication Biological sample Sampling time Biological limit values
2-butanone oxime	2-butanone oxime urine after working shift 4.08 mol/mol creatinine*

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

(a) Appearance:	Liquid
(b) Odour:	Specific for organic solvents
(c) Odour threshold:	No data
(d) pH:	No data available
e) Melting point/freezing point:	< 0 °C [ASTM D97/87] ; computational method, based on component data ; hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics
(f) Initial boiling point and boiling range:	
(g) Flash point:	45 (°C); ISO 3679:2015, closed cup ;
(h) Evaporation rate:	; computational method, based on component data ; No data
(i) Flammability (solid, gas):	Flammable liquid and vapour.

(k) Vapour pressure:	No data
(l) Vapour density:	No data
(m) Relative density(kg/l):	0,90-1,25 ISO 2811
(n) Solubility(ies):	Insoluble
(o) Partition coefficient: n-octanol/water:	; computational method, based on component data
(p) Auto-ignition temperature:	; computational method, based on component data ; No data
(q) Decomposition temperature:	No data
(r) Viscosity:	Tixotropic
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, %)	67-76
Organic solvents (wght. %)	24-33
Water content: (calculated, %)	0

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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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	Product contains components which may cause effects in case of contact with skin and may cause problems to some individuals. Such components are: ; computational method, based on component data 2-butanone oxime
INHALATIONAL	None data known.
Special precautionary measures:	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Data on components:

Chemical Name	LC50 inhalation	Oral LD50	Dermal LD50
naphtha (petroleum), hydrotreated heavy		OLD50 Rat > 5000 mg/kg	D LD50 Rabbit > 3160 mg/kg
2,6-dimethylheptan-4-one	LC50-4 hours Rat > 2300 ppm		
2-butanone oxime	LC50-4 hours Rat 20 mg/l	OLD50 Rat 930 mg/kg	D LD50 Rabbit 0 mg/kg

(b) skin corrosion/irritation:

Skin:	None data known.
Special precautionary measures:	Product does not contain components classified as corrosive/irritant to skin.

(c) serious eye damage/irritation:

Eyes:	Product contains components which may cause effects in case of contact with eyes and may cause problems to some individuals.
Special precautionary measures:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(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.

(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:	Product contains components which are suspected to cause cancer, but below the threshold to classify the product itself.
Special precautionary measures:	Product does not contain components classified as cancerogenic.

(g) reproductive toxicity:

Exposure to product:	None data known.
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Special measures:	precautionary	Product does not contain components classified as being reprotoxic.
(h) STOT-single exposure:		
Exposure to product:		May cause drowsiness or dizziness.
Special measures:	precautionary	Use only outdoors or in a well-ventilated area.
(i) STOT-repeated exposure:		
Special measures:	precautionary	Product does not contain components classified as causing harmful effect to organs on repeated or prolonged exposure.
(j) aspiration hazard:		
INHALATIONAL		Product contains components which may cause aspiration hazard, but kinematic viscosity is high enough that product is not classified with aspiration hazard.
Special measures:	precautionary	Do NOT induce vomiting.

12. Ecological information

12.1. Toxicity

Ecotoxicity - Data on components:	Product (based on the data component) is not classified as dangerous for the environment.
Chemical Name	Ecotoxicity conc.
naphtha (petroleum), hydrotreated heavy	Aquatic LC50 (96h) fish > 1000 mg/l Aquatic LC50 Daphnia > 1000 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:	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: H3-B The recommended dgradation method is the use of the controlled high temperature incineration or disposal to the deposits for dangerous substances.
Packaging:	Empty the packaging as thoroughly as possible. The thoroughly emptied packaging (dry) may be disposed of as not dangerous waste according to material type.

14. Transport information

	Transport by road/by railway - ADR/RID:	Transport by sea – IMDG:	Air transport (IATA):
Reliefs, exemptions:	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.	In case a product is transported in the packaging units smaller than 30 l, it will not be classified as dangerous according to IMDG, in accordance with transport IMDG-code 2.3.2.5	
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	III	III	III
Label:			
Hazard number:	30	30	30
Tunnel restriction code:	(D/E)		
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.d - Interior/exterior trim and cladding paints for wood and metal, solvent-borne coatings (SB) 300 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.

H351 - Suspected of causing cancer.

H318 - Causes serious eye damage.

H312 - Harmful in contact with skin.

H335 - May cause respiratory irritation.

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

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.