

MATERIAL SAFETY DATA SHEET

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This form has been prepared according to regulation (EC) No 453/2010 and regulation on Material Safety Data Sheet related to Hazardous Substances and Mixtures (R.G. 13.12.2014-29204).

PERMOLIT PERMODUR LIQUID PLASTIC COATING

Preparation Date : 01.06.2015
Form No : GBF 03.022

Revision Date : 05.06.2017
Revision No : 1

1. Identification of the Substance/Mixture and of the Company/Undertaking**1.1. Product identifier**

Permolit Permodur Liquid Plastic Coating

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

Acrylic emulsion, water based, elastic, liquid water isolation material

1.3. Details of the supplier of the safety data sheet

Name : Akçalı Boya ve Kimya San. Tic. A.Ş.
Address : Osmangazi M. Mareşal Fevzi Çakmak C. No:5 Esenyurt – İstanbul / Türkiye
Tel / Fax : +90 0212 886 23 43 (Pbx) / +90 0212 886 18 11
Contact e-mail : zekir.senol@akcaliboya.com.tr

1.4. Emergency telephone number

Emergency telephone number : +90 212 886 23 43
National Toxic Consultation Center : 114 (UZEM)

2. Hazards Identification**2.1. Classification of the substance/mixture**

Classification according to regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures and Turkish regulation R.G. 11.12.2013-No: 28848 (repeating):

The product hasn't been classified.

2.2. Label elements

Labelling isn't required.

EUH 208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (Cas No: 55965-84-9) and 2-octyl-2H-isothiazol-3-one (Cas No: 26530-20-1). May produce an allergic reaction.

Precautionary Statements

P102 : Keep out of reach of children.
P262 : Do not get in eyes, on skin, or on clothing.
P270 : Do not eat, drink or smoke when using this product.
P273 : Avoid release to the environment.
P302+P352 : IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

It has not been classified to according to PBT and vPvB.

3. Composition/Information on the Ingredients**3.2. Mixture**

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Ingredient name	EC No	CAS No	%	Classification (EC 1272/2008)
Ethylene glycol	203-473-3	107-21-1	<1	GHS07; Acute Tox. 4 *-H302
Diuron	206-354-4	330-54-1	<0,05	GHS06; Carc. 2-H351 STOT RE 2 *-H373 GHS07; Acute Tox. 4 *-H302 GHS09; Aquatic Acute 1-H400 Aquatic Chronic 1-H410
Pyrrithione zinc	236-671-3	13463-41-7	<0,05	GHS06; Acute Tox. 3 *-H301 Acute Tox. 3 *-H331 GHS05; Eye Dam.1-H318 GHS09; Aquatic Acute 1-H400 Aquatic Chronic 1-H410
2-octyl-2H-isothiazol-3-one	247-761-7	26530-20-1	<0,05	GHS06; Acute Tox. 3 *-H331 Acute Tox. 3 *-H311 GHS07; Acute Tox. 4 *-H302 Skin Sens. 1-H317 GHS05; Skin Corr. 1B-H314 GHS09; Aquatic Acute 1-H400 Aquatic Chronic 1-H410
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)		55965-84-9	<0,0015	GHS06; Acute Tox. 3 *-H331 Acute Tox. 3 *-H311 Acute Tox. 3 *-H301 GHS05; Skin Corr. 1B-H314 GHS07; Skin Sens. 1-H317 GHS09; Aquatic Acute 1-H400 Aquatic Chronic 1-H410

*For the explanation of the listed hazard statements refer to Section 16.

4. First Aid Measures

4.1 Description of first aid measures

Inhalation : Remove to fresh air. In case of persistent complaints obtain medical attention.

Ingestion : Do not induce vomiting. Immediately obtain medical attention.

Skin contact : Remove contaminated clothing. Clean the skin with water, soap and special cleaning cream.

Eye contact : Flush eye with copious quantities of water. If irritation occurs, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Other information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

Other information is not available.

5. Firefighting Measures

The product isn't flammable.

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5.1 Extinguishing media

Suitable extinguishing media : Water, dry chemical powder, foam, CO₂, inert absorbent sand.
Unsuitable extinguishing media : No

5.2 Special hazards arising from the substance or mixture

If fire starts, not breathe the fume

5.3 Advice for firefighters

Use suitable protective clothes, boots, gloves, eye and face protective, breathing equipment.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

If leak and spilt occurs, ventilate the environment sufficiently, wear personal protective equipment.

6.2 Environmental precautions

Keep away from drains, surface and ground water and soil.

6.3 Methods and material for containment and cleaning up

Use sand, sawdust or inert absorbent material to limit product leakage. Transfer the leaky material to suitable containers for safe disposal. Soak up with an appropriate absorbent material and put it in a closed container for safe disposal in accordance with current legislation (Section 13).

6.4 Reference to other sections

Responding to accident place, wear personal protective equipment in Section 8 and dispose of waste in accordance with procedure in Section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Use in well-ventilated areas. Extra special precautions aren't required. Avoid product releasing unrestrainedly.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed package at ambient temperature protecting from direct sun lights and hot. Product isn't flammable and explosive.

7.3 Specific end use(s)

Use by looking product label.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Indicative occupational exposure limit values:

Ingredient name	TWA-8 hours		STEL-15 minutes		Notation
Ethylene glycol Cas No:107-21-1	52 mg/m ³	20 ppm	104 mg/m ³	40 ppm	Skin

8.2 Exposure controls

Personal protective equipment

Respiratory protection : Special equipment isn't required. Provide ventilation in working area.

Hand protection : Wear waterproof rubber gloves with CE marking.

Eye protection : Use eyewear with CE marking.

Skin protection : Not require special clothes. Take off working-clothes after usage.

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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : Off-white
Odour : Special characteristic odour
Viscosity : 130 ± 5 KU (25°C)
Density : $1,34 \pm 0,15$ gr/cm³ (25°C)
Solid : 66 ± 2 (120°C 30 min)
pH : $8,5 \pm 1$
Flash point : Not applicable
Self igniting : Product is not self igniting
Boiling point : Not determined
Melting point : Not determined
Solubility : Soluble in water

9.2 Other information

Other information is not available.

10. Stability and Reactivity

10.1 Reactivity : Under normal conditions, product does not react.
10.2 Chemical stability : Stable under normal conditions of storage and use.
10.3 Possibility of hazardous reactions : Not
10.4 Conditions to avoid : Not special conditions.
10.5 Incompatible materials : Not special materials.
10.6 Hazardous decomposition products : No hazardous decomposition products known.

11. Toxicological Information

11.1 Information on toxicological effects

No toxicity data are available for the product.

Ingestion : Not detected a problem.
Inhalation of vapour : Not detected a problem.
Skin contact : Not detected a problem.
Eye contact : It may cause irritation eyes.

Toxicological effects of ingredients of product:

Ingredient name	
Diuron Cas No: 330-54-1	LD50: 4150 mg/kg (rat) – acute oral toxicity LC50 (4 h): 5.05 mg/L (rat) – acute inhalation toxicity LD50: 5000 mg/kg (rat) – acute dermal toxicity
Pyrethione zinc Cas No: 13463-41-7	LD50: 221-302 mg/kg (rat) – acute oral toxicity LD50: 2000 mg/kg (rat) – acute dermal toxicity
2-octyl-2H-isothiazol-3-one Cas No: 26530-20-1	LD50: 550 mg/kg (rat) – acute oral toxicity LD50: 690 mg/kg (rat) – acute dermal toxicity

12. Ecological Information

No ecotoxicity data are available for the product.

12.1 Toxicity : Not dangerous for environment.

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Ecotoxicological effects of ingredients of product:

Ingredient name	
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)	EC50/48 h 0,1 mg/l (Daphnia magna) EC50/72 h 0,048 mg/l (Pseudokirchneriella subcapitata) EC50/96 h 0,22 mg/l (Oncorhynchus mykiss)
Diuron Cas No: 330-54-1	EC50/48 h 1,4 mg/l (Daphnia magna) EC50/72 h 0,03 mg/l (Desmodesmus subspicatus) LC50/96 h 14,7 mg/l (Oncorhynchus mykiss)
Pyrethione zinc Cas No: 13463-41-7	EC50/48 h 0,051 mg/l (Daphnia magna) EC50/72 h 0,051 mg/l (Pseudokirchneriella subcapitata) LC50/96 h 0,0104 mg/l (Brachydanio rerio)
2-octyl-2H-isothiazol-3-one Cas No: 26530-20-1	EC50/48 h 0,42 mg/l (Daphnia magna) EC50/72 h 0,084 mg/l (Scenedesmus subspicatus) LC50/96 h 0,036 mg/l (Oncorhynchus mykiss)

- 12.2 Persistence and degradability : No available data
12.3 Bioaccumulative potential : No bioaccumulative potential for product
12.4 Mobility in soil : No mobility
12.5 Results of PBT and vPvB assessment : No available data
12.6 Other adverse effects : No available data

13. Disposal Considerations

Disposal of waste/surplus and contaminated packaging should be carried out in accordance with applicable regional, national and local laws and regulations. According to Turkish regulation of Waste Management (R.G. 02.04.2015 No: 29314), waste codes:

Waste paint and varnish : 080111
Contaminated package : 150110
Contaminated waste : 150202

13.1 Waste treatment methods

Do not allow product to reach sewage system.
Wastes should be sent to licensed recycling facility

14. Transport Information

Road Transport : ADR / RID ve GGVS / GGVE
Marine Transport : IMDG / GGVSea
Air Transport : ICAO – TI ve IATA DGR

Product isn't dangerous goods according to these regulations.

- 14.1 UN number : Not applicable.
14.2 UN proper shipping name : Not applicable.
14.3 Transport hazard class(es) : Not applicable.
14.4 Packing group : Not applicable.
14.5 Environmental hazards : Not applicable.
14.6 Special precautions for user : Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

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15. Regulatory Information

The product has been classified and marked according to Globally Harmonized System (GHS).

Regulation EC No 1272/2008 of the European Parliament and of the Council 16 December 2008 on Classification, Labelling and Packaging of Substances and Mixtures and Turkish Regulation about Classification, Labelling and Packaging of Substances and Mixtures-R.G. 11.12.2013-No: 28848 (repeating),

Regulation (EC) No 453/2010 and regulation on Material Safety Data Sheet related to Hazardous Substances and Mixtures (R.G. 13.12.2014-29204),

This form has been prepared according to regulations above.

Indicative occupational exposure limit values have been written in accordance with Directive 98/24/EC and Turkish regulation Health and Safety Precautions on Working with Chemical Material 12.08.2013-28733.

VOC of product has been calculated according to 2004/42/EC.

16. Other Information

Revision has been carried out due to regulation change.

Explanation of the hazard and precautionary statements according to (EC) No 1272/2008 and Turkish regulation R.G. 11.12.2013-No: 28848 (repeating):

Hazard Statements

H301 : Toxic if swallowed
H302 : Harmful if swallowed
H311 : Toxic in contact with skin
H314 : Causes severe skin burns and eye damage
H317 : May cause an allergic skin reaction
H318 : Causes serious eye damage
H331 : Toxic if inhaled.
H351 : Suspected of causing cancer
H373 : May cause damage to organs through prolonged or repeated exposure
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Name-Surname : Zekir ŞENOL
MSDS Certificate No : GBF – 1904
Document Date : 13.04.2015

Not : The data given here is based on our current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.