

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 GRAFİTE ÖZEL METAL BOYASI / PERMOLIT GRAPHITE SPECIAL METAL PAINT

Preparation Date : 05.06.2017
Form No : GBF 05.062

Revision Date : -
Revision No : -

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

Permolit Graphite Special Metal Paint

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

Solvent based, epoxy binder based, air drying, anti-rust top coat, glossy metal paint

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):

GHS02
Flammable Liquid 2 H225 Highly flammable liquid and vapour.

GHS07
Skin Irritation 2 H315 Causes skin irritation
STOT SE 3 H336 May cause drowsiness or dizziness

GHS08
Aspiration Toxicity 1 H304 May be fatal if swallowed and enters airways
Reproductive Toxicity 2 H361d Suspected of damaging the unborn child
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure

2.2. Label elements

Signal Word : Danger

Pictograms : GHS02, GHS08, GHS07



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Hazard Statements

H225 : Highly flammable liquid and vapour
H304 : May be fatal if swallowed and enters airways
H315 : Causes skin irritation
H336 : May cause drowsiness or dizziness
H361d : Suspected of damaging the unborn child
H373 : May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P210 : Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
P271 : Use only outdoors or in a well-ventilated area.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 : IF ON SKIN: Wash with plenty of soap and water.
P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403+P233 : Store in a well-ventilated place. Keep container tightly closed.
P501 : Dispose of contents/container through licensed companies.

Hazardous components requiring labeling: Toluene (Cas No: 108-88-3).

2.3. Other hazards

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

3. Composition/Information on the Ingredients
3.2. Mixture

Ingredient name	EC No	CAS No	%	Classification (EC 1272/2008)
Toluene	203-625-9	108-88-3	15-20	GHS02; Flam.Liq.2-H225 GHS08; Repr.2-H361d*** Asp Tox 1-H304 STOT RE 2*-H373** GHS07; Skin Irrit.2-H315 STOT SE 3-H336
Xylene	215-535-7	1330-20-7	3-5	GHS02; Flam.Liq.2-H226 GHS07; Skin.Irrit.2-H315 Acute Tox.4*-H332 Acute Tox.4*-H312
Butyl Glycol	203-905-0	111-76-2	1-3	GHS07;Acute Tox.4*-H332 Acute Tox.4*-H312 Acute Tox.4*-H302 Eye Irrit.2-H319 Skin Irrit.2-H315

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

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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 contains flammable solvents.

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam, CO₂, inert absorbent sand, waterfog.

Unsuitable extinguishing media : Never response to fire with pressured water. Water causes to fire releasing. Only water can be used for cooling the environment.

5.2 Special hazards arising from the substance or mixture

If fire starts, toxic fumes may be released, so not breathe the fume

5.3 Advice for firefighters

Wear suitable protective clothes, boots, gloves, eye and face protective, self-contained breathing apparatus. Keep adjacent containers cool by spraying with water, immediately remove from the fire place.

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. Remove ignition sources and do not smoke. Be carefully, because solvents which product include can be collected close to ground and pit. It is heavy from air.

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 only in well-ventilated areas. Do not breath vapour or spray. Take measure against static electricity. Keep ignition sources away and do not smoke. Avoid eye and skin contact.

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7.2 Conditions for safe storage, including any incompatibilities

Store in closed package at ambient temperature, in a well ventilated shady cool place. Keep ignition sources away and do not smoke.

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
	mg/m ³	ppm	mg/m ³	ppm	
Toluene (Cas No:108-88-3)	192 mg/m ³	50 ppm	384 mg/m ³	100 ppm	Skin
Xylene (Cas No: 1330-20-7)	221 mg/m ³	50 ppm	442 mg/m ³	100 ppm	Skin
Butyl glycol (Cas No: 11-76-2)	98 mg/m ³	20 ppm	246 mg/m ³	50 ppm	Skin

8.2 Exposure controls

Provide sufficient ventilation. Do not breathe vapours or aerosols. Do not eat, drink or smoke at work.

Personal protective equipment

Respiratory protection : Use A1 type organic solvent mask. Provide ventilation in working area.

Hand protection : Wear solvent resistant nitril gloves with CE marking. Wash your hands after pulling off gloves.

Eye protection : Use solvent resistant eyewear with CE marking, designed to protect against splash of liquids.

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

9. Physical and Chemical Properties
9.1 Information on basic physical and chemical properties

Appearance : Liquid, emulsion

Colour : Card colours

Odour : Special characteristic odour

Viscosity : 90-95 KU (25⁰C)

Density : 1,10 - 1,15 gr/cm³ (25°C)

Solid : 60 - 65 (120°C 30 min)

pH : Not applicable

Flash point : <21°C

Self igniting : Product is not self igniting

Melting point : Not determined

Solubility : Insoluble in water. Soluble organic solvent (aromatic solvent, ester)

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 expected under normal conditions of storage and use.

10.4 Conditions to avoid : Avoid overheating and all kinds of ignition sources.

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10.5 Incompatible materials : Avoid strong acids, bases, oxidizing materials to prevent heat dependent reactions,

10.6 Hazardous decomposition products : In case of thermal decomposition and fire, toxic gases or vapours may occur.

11. Toxicological Information**11.1 Information on toxicological effects**

No toxicity data are available for the product.

Ingestion : May cause nausea, vomiting and diarrhoea.

Inhalation of vapour : May cause headache, dizziness, fatigue, muscle pain.

Skin contact : Concentration in excess of the stated occupational exposure limit may cause skin irritation.

Eye contact : At liquid state or spray may cause irritation eyes.

Toxicological effects of ingredients of product:

Ingredient name	Acute toxicity
Toluene (Cas No:108-88-3)	LD 50 rat: >5580 mg/kg, acute oral toxicity LC 50 rat: 12500-28800 mg/m ³ , 4 hours, acute inhalation toxicity LD 50 rabbit: 12196 mg/kg, acute dermal toxicity
Xylene (Cas No: 1330-20-7)	LC 50 rat: 5000 ppm, 4 hours, acute inhalation toxicity, gas LC 50 rat: 6350 ppm, 4 hours, acute inhalation toxicity, vapor LD 50 rabbit: > 2000 mg/kg, rabbit, acute dermal toxicity LD 50 rat: 4300 mg/kg, acute oral toxicity

12. Ecological Information

No ecotoxicity data are available for the product.

12.1 Toxicity : No available data

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.

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14. Transport Information

	ADR	IMDG	IATA/ICAO
14.1 UN number	: 1263	1263	1263
14.2 UN proper shipping name	: Paint	Paint	Paint
14.3 Transport hazard class(es)	: 3 (Flam. Liq.)	3 (Flam. Liq.)	3 (Flam. Liq.)
Class code	: F1		
14.4 Packing group	: II	II	II
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		

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 and suppliers.

16. Other Information

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

H225 : Highly flammable liquid and vapour

H226 : Flammable liquid and vapour

H302 : Harmful if swallowed

H304 : May be fatal if swallowed and enters airways

H312 : Harmful in contact with skin

H315 : Causes skin irritation

H319 : Causes serious eye irritation

H332 : Harmful if inhaled

H336 : May cause drowsiness or dizziness

H361d: Suspected of damaging the unborn child

H373 : May cause damage to organs through prolonged or repeated exposure

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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.