

According to the Regulation EC No. 1907/2006

FLAT TWO COMPONENT ROAD MARKING PAINT

Date Prepared : Aug. 15, 2016
Revision : 0

Revision Date : -
SDS No : GBF - 2155

1- IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1- Product Identifier

Product Name FLAT TWO COMPONENT ROAD MARKING PAINT

1.2- Relevant identified uses of the substance advised against

Identified uses Two-component road marking paint. It is used in pedestrian crossings, stop lines and cruise lines, which play an important role in creating traffic safety.
Usage advised against No information available.

1.3- Details of the supplier of the substance or mixture

Address SIGNATEKMA Boya ve Sinyalizasyon San.ve Tic. A.Ş.
Kurtuluş Caddesi No:23 Yazıbaşı – Torbalı / İzmir / Turkey
Telephone + 90 232 853 85 70
Fax + 90 232 853 73 79
E-mail info@signatekma.com.tr

1.4- Emergency telephone number

Signatekma 0 532 505 00 23

2- HAZARDS IDENTIFICATION

2.1- Classification of the substance:

According to the Regulation of EC 1272/2008 (CLP):

Flammable Liquid, Category 2, H225
Skin Irritation, Category, 2, H315
Skin Sensitizer, Category 1, H317
Specific Target Organ Toxicity, Single Exposure, Category 3, H335
Acute Toxicity (mouth), Category 4, H302
Acute Toxicity (skin), Category 4, H312
Acute toxicity (inhalation: vapor) Category 4, H332
Specific Target Organ Toxicity, Repeated Exposure, Category 2, H373

2.2- Label elements:

According to the Regulation of EC 1272/2008 (CLP):

Hazard Pictograms:



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H302+H312+H332 Harmful if swallowed, in contact with skin or if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory tract irritation.

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

Precautionary statements

Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe the vapours
- P261 Avoid breathing the mist / vapor / spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment (see ... on this label).
- P330 Rinse mouth.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Remove your contaminated clothing and wash before reuse
- P370+P378 In case of fire: Evacuate area.

Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal

- P501 Dispose of contents/containers to the local regulations.

2.3- Other Hazards:

Not applicable

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3- COMPOSITION/INFORMATION ON INGREDIENTS

3.2- Substance

Chemical name	EC No.	CAS No.	%	Classification
Methyl methacrylate	201-297-1	80-62-6	10 ≤ X < 25	Flam. Liq..2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
2-ethylhexyl acrylate	203-080-7	103-11-7	2,5 ≤ X < 10	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
N,N-dimethyl-p-toluidine	202-805-4	99-97-8	10 ≤ X < 25	Acute Tox. 3 (Inhalation), H331 Acute Tox 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE. 2, H373 Aquatic Chronic 3, H412

Full text of H-statements: see section 16.

4- FIRST AID MEASURES

4.1- Description of first aid measures

General

Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Contact may cause moderate skin irritation during use. Avoid prolonged exposure to skin products. Wash the irritant area with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye contact

Contact with product may cause severe eye irritation. In case of contact with liquid, rinse affected eye with clean water for at least 15 minutes. If irritation occurs: Get medical advice/attention.

Inhalation

Remove the victim to fresh air and hold him in a comfortable position for easy breathing. If irritation persists, seek medical attention.

Ingestion

Under normal circumstances, it is not likely to occur. No significant irritation.

5- FIRE FIGHTING MEASURES

5.1- General information

The product is classified as flammable. Flash point ≤ 21 °C

5.2- Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Never use water to extinguish.

5.3- Special hazards arising from the substance or mixture

No data available.

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5.4- Special hazards arising from the substance or mixture

Wear full protective clothing including self-contained breathing apparatus for firefighting if necessary.

5.5- Special methods

Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilation/flammable/material.

6- ACCIDENTAL RELEASE MEASURES

6.1- Personal precautions, protective equipment, and emergency procedures

Avoid contact with eyes and skin of the product. Use personal protective equipment. Make sure of good ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

6.2- Environmental precautions

Collect contaminated/extinguishing water. Place spilled material in a container to dispose of non-combustible absorbent materials such as sand, earth, vermiculite, and diatomaceous earth in accordance with local regulations. (see section 13). Do not allow it to interfere with water, soil and sewage.

6.3- Methods and materials for containment and cleaning up

This is a dangerous waste. Collect and packaging back for recycling or disposal.

6.4- Reference to other sections

Information on safe handling is given in section 7. Information on personal protective equipment is given in section 8. Disposal information from chapter 13

7- HANDLING AND STORAGE

7.1- Precautions for safe use

Ensure that the work area is well ventilated. Avoid long-term contact with your eyes and skin. Wash thoroughly with detergent after handling.

7.2- Condition for safe storage, including any incompatibilities

Keep away from strong solvents and extreme heat. Store in a dry and well-ventilated enclosed area. Store in its original packaging. Take precautions against static discharges. The product can be electrostatically charged; Wear antistatic shoes and clothes. Protect from all kinds of fire and heat source, sunlight. Do not smoke.

7.3- Specific end use(s)

Road marking paint.

8- EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1- Exposure Limit Values

Control parameters

- Regulation on Health and Safety Precautions in Chemical Ingredients Studies (TR):

Methyl methacrylate (80-62-6)

TWA	50 ppm
STEL	100 ppm

8.2- Exposure controls



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General Protection and Hygiene Measures	Keep the container tightly closed. Wash your hands at the end of the work and break. Do not eat or drink any food while using this product.
Respiratory protection	No respiratory protection is required. Use a mask according to EN 143 if necessary.
Eye/Face protection	Use safety goggles in accordance with EN 166 with side-shielded, which fit perfectly into areas where there is a high risk of splashing. It is advisable to have a shower in the work area.
Hand protection	Use neoprene or nitrile gloves in accordance with EN 374. Protective cream can be used before starting work. Do not clean with cream after coming into contact with paint.
Body protection	If necessary, use work clothes in accordance with EN 465 or EN 467 and work shoes in accordance with EN 347 standards.

8.3- Environmental exposure controls

The provisions of existing legislation for the protection of the environment must be fully implemented.

9- PHYSICAL AND CHEMICAL PROPERTIES

9.1- Information on basic physical and chemical properties:

Physical State	Liquid
pH	Not determined.
Boiling point, °C	Not determined
Flash point, °C	≤ 21 °C.
Vapor pressure (hPa) (20°C)	below 110 kPa (1.10)
Density @ 20°C, gr/m ³	> 1
Solubility in water @ 20°C	Insoluble.

9.2- Other Information:

Melting Point, ° C	Not determined.
Decomposition Point, ° C	Not determined.
Self-ignition Temperature, ° C	Not determined.

10- STABILITY AND REACTIVITY

10.1- Reactivity

The substance is stable under normal storage and handling conditions.

10.2- Chemical stability

It is stable under normal conditions.

10.3- Possibility of hazardous reactions

Under normal circumstances, reactions that may occur are not dangerous.

10.4- Conditions to avoid

Do not expose to incompatible materials.

10.5- Substances to avoid

Avoid strong acids and alkaline solutions that will damage the surface appearance of the material.

10.6- Hazardous decomposition products

The thermal decomposition product may contain various liberated carbon oxides.

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11- TOXICOLOGICAL INFORMATION

11.1- Information on toxicological effects

Acute toxicity	No data available.
Components:	
Methyl methacrylate (80-62-6)	
Oral	LD50: 9400 mg/kg
Inhalation	LC100: 16000 ppm (4 h)
Dermal	LD50: > 5000 mg/kg
2-ethylhexyl acrylate (103-11-7)	
Oral	LD50: 5766 mg/kg
Inhalation	LC50: > 7713 mg/l (30 min)
Dermal	LD50: > 12000 mg/kg

11.2- Corrosion and irritation

Serious eye damage/irritation	No data available.
Skin corrosion/irritation	Causes skin irritation
Skin sensitization	No data available.
Respiratory sensitization	No data available.
Respiratory tract irritation	No data available

11.3- Chronic effects

Carcinogenicity	Not listed in ACGIH, IARC or NTP.
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11.4- Other Toxicity Effects

Mutagenicity	No data available.
Reproduction toxicity	No data available
Epidemiology	No data available
Teratogenicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available

12- ECOLOGICAL INFORMATION

12.1- Toxicity

Product-related data is not available.	
Components:	
Methyl methacrylate (80-62-6)	
Acute fish toxicity	LC50: 350 mg/l (48 h)
Acute daphnia magna toxicity	EC50: 1760 mg/l (24 h)
Acute algae toxicity	LC50:> 170 mg/l (96 h)
2-ethylhexyl acrylate (103-11-7)	
Acute fish toxicity	LC50: 5.2 mg/l (96 h)
Acute daphnia magna toxicity	EC50: 1.3 mg/l (48 h)
Acute algae toxicity	NOEC:> 1.71 mg/l (72 h)

12.2- Persistence and degradability

No data available.

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12.3- Bioaccumulative potential

No data available.

12.4- Mobility in soil

No data available.

12.5- Results of PBT and vPvB assessment

No data available.

12.6- Other adverse effects

No data available.

13- DISPOSAL CONSIDERATIONS

13.1- Waste treatment methods

Material may be hazardous and special handling may be required for disposal. Not given to sewer. Disposal in storage must comply with federal, state and local regulations.

14- TRANSPORT INFORMATION

Land transport (ADR / RID)

14.1- UN number	UN1263
14.2- Proper UN transport name	Paint
14.3- Transport hazard class(es)	3
14.4- Packing group	III
14.5- Environmental hazards	Not harmful to the environment.
14.6- Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Limited quantity (ADR/RID)	5 L
Tank code (ADR/RID)	LGBF
Vehicle for tank carriage	FL
Tunnel code	2 (D/E)
Hazard identification no.	33
Orange plates	



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1263

Sea transport (IMDG Code)

14.1- UN number	UN1263
14.2- Proper UN transport name	Paint
14.3- Transport hazard class (es)	3
14.4- Packing group	III
14.5- Environmental hazards	Not harmful to the environment.
14.6- Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Limited quantity (IMDG)	LQ
EmS No (Fire)	F-E
N*FS (Spill)	S-E



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Air Transport (ICAO-IATA/DGR)

14.1- UN number	UN1263
14.2- Proper UN transport name	Paint
14.3- Transport hazard class (es)	3
14.4- Packing group	-
14.5- Environmental hazards	Not harmful to the environment.
14.6- Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.



15- REGULATORY INFORMATION

15.1- Safety, health and environmental regulations specific for the substance or mixture

- Regulation (EC) No 1907/2006, (REACH),
- Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006,
- Regulation (EC) No 1272/2008 (CLP),
- Commission Directive 2006/15/EC,
- Commission Directive 2000/39/EC
- Council Directive 91/689/EEC,
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

16- OTHER INFORMATION

16.1- The relevant H phrases (number and full text):

H225	Highly flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	Causes allergic skin reactions.
H331	Toxic by inhalation.
H332	Harmful by inhalation.
H335	May cause respiratory irritation.
H373	May cause damage to organs resulting in prolonged or repeated exposure.
H412	Long-lasting, harmful effect in aquatic environment.

16.2- Abbreviations and acronyms

ADR	: European Agreement Concerning the Int. Carriage of Dangerous Goods by Road
CAS No	: Chemical Abstract Service Index Number
EC No	: European Commission Number
EC50	: Concentration which produces a certain effect under the conditions determined in 50% of the organisms subjected to the test
IATA	: International Air Transport Association
ICAO	: International Civil Aviation Organization
IMDG	: International Maritime Code for Dangerous Goods
LC50	: Lethal Concentration 50% (Substance concentration should be in the air to kill 50% of the test animals)
LD50	: Lethal Dose 50% (The amount of substance required to be dosed at a time to kill 50% of test animals)

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REACH : Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals in the European Union
STEL : Short Term Exposure Limit
TWA : Time Weighted Average

16.3- Further Information:

This safety data sheet has been prepared in accordance with the information received from the product owner. The information in this document is based on the best available information. This information applies only to the specified substance/preparation.

The information given in this document does not constitute a guarantee/warranty for the product specifications and does not constitute a legally binding contract/contingent legal relationship feature. This document completes the technical documentation but can not be replaced. The information provided is based on our current knowledge of the product at the time of publication. Based on good goodness.

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