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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Road marking 2k cold plastic

Trade Name: KolPlast

Product type: Liquid

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

Road marking

1.3 Details of the supplier of the safety data sheet

Kolibir Ltd.

5 Modeine st. Petach- Tikva

ISRAEL 4927154

Tel.: +972-3-9046652

Fax: +972-3-9046452

E-mail address of person responsible for this SDS: info@kolibir.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): +972-50-5218061

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC

Product name	EU Classification
KolPlast	F; R11 Xi; R36/38/38 R43 R52/53

2.2 Label elements

Labelling in accordance with 1999/45 (DPD)

Hazard symbol(s):

F; Flammable Xi; Irritant



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Risk phrase(s):

R11: Highly flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrase(s):

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16: Keep away from sources of ignition - No smoking.

S24/25 - Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

2.3 Other hazard

None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation:

Product/ Ingredient name	Identifiers	%	EU Classification	CLP/GHS Classification
butyl acrylate	CAS number: 141-32-2 EC number: 205-480-7	0-16	R10 Xi; R36/37/38 R43	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317
methyl methacrylate	CAS number: 80-62-6 EC number: 201-297-1	4-16	F; R11 Xi; R37/38 R43	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317
methacrylic acid, monoester with propane-1,2-diol	CAS number: 27813-02-1 EC number: 248-666-3	0-3.25	Xi; R36 R43	Eye Irrit. 2; H319 Skin Sens. 1; H317
2,2'-ethylenedioxydiethyl dimethacrylate	CAS number: 109-16-0 EC number: 203-652-6	1.75-3.25	Not Classified	Not Classified
1,1'-(p-tolylimino)dipropen-2-ol	CAS number: 38668-48-3 EC number: 254-075-1	0.025-1.25	T; R25 R52/53	Acute Tox. 2 ;H300 Eye Irrit. 2; H319 Aquatic Acute 3 ;H402 Aquatic Chronic 3; H412
3,7-dimethyloct-6-enal	CAS number: 106-23-0 EC number: 203-376-6	0.025-0.25	Xi; R38 R43 N; R51/53	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317

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Product/ Ingredient name	Identifiers	%	EU Classification	CLP/GHS Classification
tris(nonylphenyl) phosphite	CAS number: 26523-78-4 EC number: 247-759-6	0.025-0.25	Xi; R43 N; R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
N,N-dimethyl-p-toluidine	CAS number: 99-97-8 EC number: 202-805-4	0.025-0.25	T; R23/24/25 R33 R52/53	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT RE 2 ; H373 Aquatic Chronic 3; H412

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.
See section 16 for the full text of the R-phrases and H-statements declared above.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

- Eyes contact:** In case of contact with eyes, rinse thoroughly with plenty of water. Get medical advice.
- Skin contact:** In case of contact with skin wash off immediately with soap and plenty of water, and get medical advice.
- Inhalation:** Remove from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.
- Ingestion:** Wash mouth thoroughly with plenty of water. Get medical attention immediately. Do NOT induce vomiting. Never give a glassful of water by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote, contact Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable: Foam, dry chemical or carbon dioxide.

Not suitable: N/A

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5.2 Special hazards arising from the substance or mixture

Hazardous thermal decomposition products: Hydrogen chloride, Chlorine, Nitrogen Oxide and Irritating and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

Cool container exposed to flame with water until well after fire is out.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ventilate area of spill. Avoid breathing vapors, mists or gas. Remove all sources of ignition.

6.2 Environmental precautions

Do not let this chemical enter the environment. Keep away from drains, surface and ground water.

6.3 Methods and materials for containment and cleaning up

Evacuate unprotected and untrained personnel from hazard area. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Large spill: As for small spill

Personal Protection in Case of Large Spill: Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep away from sources of ignitions- No smoking.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

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7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in a well-ventilated and cool place. Keep containers tightly closed. Take measures to protect against static electricity. Keep away from sunlight, strong oxidizing agents; alkali metals; alkaline earth metals; iron; zinc; aluminum:

7.3 Specific end use(s): N/A

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

Ingredient name	Occupational exposure limits
butyl acrylate	ACGIH TLV-TWA 2 ppm (sen)
methyl methacrylate	ACGIH TLV-TWA 50 ppm; STEL 100 ppm (sen)

8.2 Exposure controls

Engineering Measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Eye/face protection: Wear protective safety glasses, goggles.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hand protection: Wear protective disposable gloves to prevent skin exposure.

Environmental exposure controls: Not available

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: High viscosity liquid white or yellow

Odour: No data available

Odour threshold: No data available

pH: Not Applicable

Melting point/Freezing point: No data available

Initial boiling point/boiling range: No data available

Flash point: < 19°C

Evaporation rate: No data available

Flammability: Flammable

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative Density: 1.58-1.85 g/cm³

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Solubility(ies): Insoluble in water
Partition coefficient Octanol/Water: No data available
Auto-ignition temperature: 23°C
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: Not applicable

9.2 Other information

N/A

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Heat, flames, sparks and sunlight.

10.5 Incompatible materials

Strong oxidizing agents, Alkali metals, Alkaline earth metals, Iron, Zinc, Aluminium.

10.6 Hazardous Decomposition products

In the event of fire : see section 5.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Test	Species	Dose
butyl acrylate	LD50, Oral LC50, Inhalation	Rat Rat	900 mg/kg 2730 ppm/4H
methyl methacrylate	LD50, Oral LC50, Inhalation	Rat Rat	7872 mg/kg 78000 mg/m3/4H
methacrylic acid, monoester with propane- 1,2-diol	LD50, Oral	Rat	11200 mg/kg
2,2'-ethylenedioxydiethyl dimethacrylate	LD50, Oral	Rat	10837 mg/kg

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Product/ingredient name	Test	Species	Dose
3,7-dimethyloct-6-enal	LD50, Oral	Rat	2420 mg/kg
N,N-dimethyl-p-toluidine	LD50, Oral LC50, Inhalation	Rat Rat	1650 mg/kg 1400 mg/m3/4H

Irritation: N/A

Corrosivity: N/A

Sensitization: N/A

Repeated dose toxicity: N/A

Carcinogenicity:

Butyl acrylate / Methyl methacrylate: IARC GROUP 3- he agent is not classifiable as to its carcinogenicity to humans

Mutagenicity: N/A

Toxicity for reproduction: N/A

Other effects: N/A

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Substance name	Toxicity to fish	Toxicity to daphnia
butyl acrylate	LC50/96h 1-10 mg/l	
methyl methacrylate	LC50/96h > 100 mg/l	
tris(nonylphenyl) phosphite	LC50/96h > 100 mg/l	EC50/48H 0.3 mg/l
N,N-dimethyl-p-toluidine	LC50/96h 46 - 52 mg/l	
1,1'-(p-tolylimino)dipropen-2-ol	LC50/96h 17 mg/l	EC50/48h 28.8 mg/l
3,7-dimethyloct-6-enal	LC50/96h ca.22 mg/l	EC50/48h 8.7 mg/l

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

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12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION

14.1 Un number

ADR/RID: 1263

IMDG: 1263

IATA: 1263

14.2 Proper shipping name

ADR/RID: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

IMDG: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

IATA: paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)

ADR/RID: 3

IMDG: 3

IATA: 3

14.4 Packing group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazard

Marine Pollutant: N/A

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code

Not available

Section 15: REGULATORY INFORMATION

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

EU Directives 67/548/EEC and 1999/45/EC (including amendments)

EU Regulation(EC) No.1907/2006 (REACH)

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15.2 Chemical safety assessment

N/A

Section 16: OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3:

T; Toxic
 F; Flammable
 Xi; Irritant
 N; Dangerous for the environment
 R33: Danger of cumulative effects.
 R10: Flammable.
 R11: Highly flammable.
 R36: Irritating to eyes.
 R38: Irritating to skin.
 R36/37/38: Irritating to eyes, respiratory system and skin.
 R37/38: Irritating to respiratory system and skin.
 R25: Toxic if swallowed.
 R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
 R43: May cause sensitization by skin contact.
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Additional safety phrases:

S02: Keep out of the reach of children.

Full text of Hazards Statements referred to in section 3:

Acute Tox.; Acute toxicity
 Aquatic chronic; Hazardous to the aquatic environment
 Aquatic Acute; Hazardous to the aquatic environment
 Skin Irrit.; Skin Irritation
 STOT SE; Specific target organ toxicity - single exposure
 STOT RE; Specific target organ toxicity - repeated exposure
 Eye Irrit; Serious eye irritation
 Skin Sens; Skin Sensitization
 Flam. Liq.; Flammable Liquid
 H226: Flammable liquid and vapour.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H225: Highly flammable liquid and vapour.
 H300: Fatal if swallowed.
 H402: Harmful to aquatic life.
 H412: Harmful to aquatic life with long lasting effects.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
 H331: Toxic if inhaled.
 H311: Toxic in contact with skin.
 H301: Toxic if swallowed.
 H373: May cause damage to organs through prolonged or repeated exposure.

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Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined

N/A- Not available

R-phrases- Risk phrases

S-phrases- Safety phrases

H-statements- Hazard statements

P- statements- Precautionary statements

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