SAFETY DATA SHEET
Multi-purpose Enamel - Gloss Colours

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME Multi-purpose Enamel - Gloss Colours
INTERNAL ID A60100_102_104-107_109_110
APPLICATION Speciality Paint
SUPPLIER Plasti-Kote Ltd.
PO Box 867,
Pampisford,
Cambridge,
CB22 3XP
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EMERGENCY TELEPHONE +44(0)1223 836400 (08:30am to 16:00pm Monday-Friday)

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.


ENVIRONMENT
The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

PHYSICAL AND CHEMICAL HAZARDS
Pressurised container: Must not be exposed to temperatures above 50°C. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

HUMAN HEALTH
In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content %</th>
<th>Classification (67/548/EEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>200-662-2</td>
<td>87-64-1</td>
<td>30-60%</td>
<td>F;R11 X;R36 R66 R67</td>
</tr>
<tr>
<td>BUTANE</td>
<td>203-448-7</td>
<td>106-97-8</td>
<td>5-10%</td>
<td>F;R12</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), LIGHT DISTILLATE, HYDROTREATED (&lt;0.1 % BENZENE)</td>
<td>270-093-2</td>
<td>68410-97-9</td>
<td>5-10%</td>
<td>Xn;R65. Xi;R38. F;R11. N;R51/53. R66.</td>
</tr>
<tr>
<td>ISOBUTYL ACETATE</td>
<td>203-745-1</td>
<td>110-19-0</td>
<td>5-10%</td>
<td>F;R11 R66</td>
</tr>
<tr>
<td>STODDARD SOLVENT (&lt;0.1 % BENZENE)</td>
<td>232-489-3</td>
<td>8052-41-3</td>
<td>1-5%</td>
<td>Xn;R65. N;R51/53. R10,R66.</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>236-675-5</td>
<td>13463-67-7</td>
<td>1-5%</td>
<td>-</td>
</tr>
<tr>
<td>PROPAN-2-OL</td>
<td>200-661-7</td>
<td>67-63-0</td>
<td>1-5%</td>
<td>F;R11 X;R36 R67</td>
</tr>
<tr>
<td>ETHYL 3-ETHOXY PROPIONATE</td>
<td>212-112-9</td>
<td>763-69-9</td>
<td>1-5%</td>
<td>R66.</td>
</tr>
<tr>
<td>XYLENE</td>
<td>215-535-7</td>
<td>1330-20-7</td>
<td>1-5%</td>
<td>R10 Xn;R20/21 Xi;R38</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>202-849-4</td>
<td>100-41-4</td>
<td>&lt; 1%</td>
<td>F;R11 Xn;R20</td>
</tr>
<tr>
<td>IRON OXIDE</td>
<td>215-168-2</td>
<td>1309-37-1</td>
<td>&lt; 1%</td>
<td>-</td>
</tr>
<tr>
<td>BARIUM SULPHATE</td>
<td>231-784-4</td>
<td>7727-43-7</td>
<td>&lt; 1%</td>
<td>-</td>
</tr>
</tbody>
</table>
Multi-purpose Enamel - Gloss Colours

The Full Text for all R-Phrases is Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION
Move the exposed person to fresh air at once.

INHALATION
Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION
Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention if any discomfort continues.

SKIN CONTACT
Wash skin with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT
Immediately rinse with water. Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention promptly if symptoms occur after washing.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Water spray, foam, dry powder or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES
Use water spray to reduce vapours. Aerosol cans may explode in a fire. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

UNUSUAL FIRE & EXPLOSION HAZARDS
Extremely flammable. Forms explosive mixtures with air. May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.

SPECIFIC HAZARDS
Pressurised container: Must not be exposed to temperatures above 50°C.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PRECAUTIONS
Avoid discharge into drains.

SPILL CLEAN UP METHODS
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Provide ventilation and confine spill. Do not allow runoff to sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Avoid inhalation of vapours and spray mists. Do not spray on a naked flame or any incandescent material. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

STORAGE PRECAUTIONS
Extremely flammable. Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

8 EXPOSURE CONTROLS/PERSO
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<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>WEL</td>
<td>500 ppm</td>
<td>1210 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500 ppm</td>
<td>3620 mg/m³</td>
<td></td>
</tr>
<tr>
<td>BARIUM SULPHATE</td>
<td>WEL</td>
<td>4 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUTANE</td>
<td>WEL</td>
<td>600 ppm</td>
<td>1450 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 ppm</td>
<td>1810 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>WEL</td>
<td>100 ppm</td>
<td>441 mg/m³</td>
<td>Sk</td>
</tr>
<tr>
<td></td>
<td></td>
<td>125 ppm</td>
<td>552 mg/m³</td>
<td></td>
</tr>
<tr>
<td>IRON OXIDE</td>
<td>WEL</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
<td>as Fe</td>
</tr>
<tr>
<td>ISOBUTYLACETATE</td>
<td>WEL</td>
<td>150 ppm</td>
<td>724 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>187 ppm</td>
<td>903 mg/m³</td>
<td></td>
</tr>
<tr>
<td>PROPAN-2-OL</td>
<td>WEL</td>
<td>400 ppm</td>
<td>999 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
<td>1250 mg/m³</td>
<td></td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>WEL</td>
<td>4 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XYLENE</td>
<td>WEL</td>
<td>50 ppm</td>
<td>220 mg/m³</td>
<td>Sk</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
<td>441 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through skin.

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. In case of inadequate ventilation use suitable respirator.

HAND PROTECTION
Skin irritation is not anticipated when used normally. For prolonged or repeated skin contact use suitable protective gloves.
Use protective gloves made of: Butyl rubber. Nitrile. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

EYE PROTECTION
Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENE MEASURES
When using do not eat, drink or smoke. Wash promptly if skin becomes wet or contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE   Aerosol.
COLOUR       Varying.
ODOUR        of solvents
PHYSICAL DATA COMMENTS Information given concerns the major ingredient. 23 Flammable gas.
FLASH POINT (°C)  < -40°C
AUTO IGNITION  410-580
TEMPERATURE (°C)  1.8%
FLAMMABILITY LIMIT - LOWER(%)  9.5%
FLAMMABILITY LIMIT - UPPER(%)  410-580

10 STABILITY AND REACTIVITY

STABILITY
Highly volatile.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

11 TOXICOLOGICAL INFORMATION

SKIN CONTACT
Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT
Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.
Multi-purpose Enamel - Gloss Colours

HEALTH WARNINGS
In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Arrhythmia, (deviation from normal heart beat).

ROUTE OF ENTRY
Inhalation.

TARGET ORGANS
Central nervous system  Respiratory system, lungs

MEDICAL SYMPTOMS
Narcotic effect. Vapours may cause drowsiness and dizziness.

<table>
<thead>
<tr>
<th>Name</th>
<th>Toxic Dose 1 - LD 50</th>
<th>Toxic Dose 2 - LD 50</th>
<th>Toxic Conc. - LC 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>3523 mg/kg (oral rat)</td>
<td>&gt;4200 mg/kg (dermal rabbit)</td>
<td>6700 ppm/4h (inh-rat)</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>3500 mg/kg (oral rat)</td>
<td>15400 mg/kg (dermal rabbit)</td>
<td>4000 ppm/4h (inh-rat)</td>
</tr>
<tr>
<td>PROPAN-2-OL</td>
<td>5840 mg/kg (oral rat)</td>
<td>12900 mg/kg (dermal rabbit)</td>
<td>&gt;10000 ppm/4h (inh-rat)</td>
</tr>
<tr>
<td>ACETONE</td>
<td>5800 mg/kg (oral rat)</td>
<td>20000 mg/kg (dermal rabbit)</td>
<td>76 mg/l/4h (inh-rat)</td>
</tr>
<tr>
<td>ISOBUTYL ACETATE</td>
<td>13413 mg/kg (oral rat)</td>
<td>&gt;17400 mg/kg (dermal rabbit)</td>
<td>~30 mg/l/4h (inh-rat)</td>
</tr>
<tr>
<td>ETHYL 3-ETHOXY PROPIONATE</td>
<td>4309 mg/kg (oral rat)</td>
<td>4080 mg/kg (dermal rabbit)</td>
<td>&gt;998 ppm/4h (inh-rat)</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>&gt;5000 mg/kg (oral rat)</td>
<td>&gt;6.82 mg/l/4h (inh-rat)</td>
<td></td>
</tr>
</tbody>
</table>

12 ECOLOGICAL INFORMATION

ECOTOXICITY
The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Dangerous for the environment if discharged into watercourses. Do not allow to enter drains, sewers or watercourses.
**Multi-purpose Enamel - Gloss Colours**

**Name**  
**XYLENE**

**Partition Coefficient**  
2.77-3.15

**LC 50, 96 Hrs, Fish mg/l**  
2.6 mg/L Oncorhyncus Mykiss

**EC 50, 48 Hrs, Daphnia, mg/l**  
1 mg/L (24 h) Daphnia magna

**IC 50, 72 Hrs, Algae, mg/l**  
4.36 mg/L Selenastrum capricornutum

**Mobility**

Volatile  
The product is insoluble in water and will spread on the water surface.

**Bioaccumulative potential**

Will not bio-accumulate.

**Name**  
**ETHYLBENZENE**

**Partition Coefficient**  
3.6

**LC 50, 96 Hrs, Fish mg/l**  
4.2 mg/L Oncorhyncus mykiss

**EC 50, 48 Hrs, Daphnia, mg/l**  
1.8-2.4 mg/L Daphnia magna

**IC 50, 72 Hrs, Algae, mg/l**  
5.4 mg/L Selenastrum capricornutum

**Mobility**

Volatile  
The product is immiscible with water and will spread on the water surface.

**Bioaccumulative potential**

Will not bio-accumulate.

**Degradability**

The substance is readily biodegradable.

**Name**  
**PROPAN-2-OL**

**Partition Coefficient**  
0.05

**LC 50, 96 Hrs, Fish mg/l**  
9640 mg/L Pimephales promelas

**EC 50, 48 Hrs, Daphnia, mg/l**  
> 10000 mg/L

**IC 50, 72 Hrs, Algae, mg/l**  
7000 mg/L Selenastrum capricornutum

**Mobility**

Highly volatile.  
The product is miscible with water. May spread in water systems.

**Bioaccumulative potential**

Will not bio-accumulate.

**Degradability**

The substance is readily biodegradable.

**Name**  
**ACETONE**

**Partition Coefficient**  
- 0.24

**LC 50, 96 Hrs, Fish mg/l**  
5540 mg/L Oncorhyncus Mykiss (Rainbow Trout)

**EC 50, 48 Hrs, Daphnia, mg/l**  
12700 mg/L Daphnia Magna

**IC 50, 72 Hrs, Algae, mg/l**  
7000 mg/L Selenastrum capricornutum

**Mobility**

Highly volatile.  
The product is water soluble and may spread in water systems.

**Bioaccumulative potential**

The product is not bioaccumulating.

**Degradability**

The product is easily biodegradable.

**Name**  
**ISOBUTYL ACETATE**

**Partition Coefficient**  
2.3

**LC 50, 96 Hrs, Fish mg/l**  
17 mg/L Oryzias Latipes

**EC 50, 48 Hrs, Daphnia, mg/l**  
25 mg/L Daphnia magna

**IC 50, 72 Hrs, Algae, mg/l**  
370 mg/L Selenastrum capricornutum

**Mobility**

Volatile  
The product is insoluble in water and will spread on the water surface.

**Bioaccumulative potential**

The product is not bioaccumulating.

**Degradability**

The product is biodegradable.

**Name**  
**ETHYL 3-ETHOXY PROPIONATE**

**Partition Coefficient**  
1.47

**LC 50, 96 Hrs, Fish mg/l**  
90 mg/L Pimephales promelas

**EC 50, 48 Hrs, Daphnia, mg/l**  
>480 mg/L Daphnia magna

**IC 50, 72 Hrs, Algae, mg/l**  
>115 mg/L Selenastrum capricornutum

**Mobility**


Multi-purpose Enamel - Gloss Colours

Volatile  The product is partly miscible with water and may spread in the aquatic environment.

Bioaccumulative potential
Will not bio-accumulate.

Degradability
The product is easily biodegradable.

Name  TITANIUM DIOXIDE

Mobility
The product is non-volatile. The product is insoluble in water and will sediment in water systems.

Bioaccumulative potential
Will not bio-accumulate.

Degradability
The product is not biodegradable.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Make sure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME  AEROSOLS  (IATA: Aerosols, flammable)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT  No.
UN NO. ROAD  1950
ADR CLASS NO.  2, 5F
ADR CLASS  Class 2.1: Flammable gases.
ADR PACK GROUP  -
TUNNEL RESTRICTION CODE  (E)
ADR LABEL NO.  2.1
UN NO. SEA  1950
IMDG CLASS  2.1
IMDG PACK GR.  -
EMS  F-D, S-U
UN NO. AIR  1950
AIR CLASS  2.1
AIR PACK GR.  -

15 REGULATORY INFORMATION

LABELLING

RISK PHRASES
R12  Extremely flammable.
Multi-purpose Enamel - Gloss Colours

R36 Irritating to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S2 Keep out of the reach of children.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour/spray.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 Do not empty into drains.
S51 Use only in well-ventilated areas.
A1 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2 Do not spray on a naked flame or any incandescent material.

UK REGULATORY REFERENCES


EU DIRECTIVES


STATUTORY INSTRUMENTS


APPROVED CODE OF PRACTICE


16 OTHER INFORMATION

REVISION DATE 23/09/2011

RISK PHRASES IN FULL

R12 Extremely flammable.
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R20 Harmful by inhalation.
R65 Harmful: may cause lung damage if swallowed.
R11 Highly flammable
R36 Irritating to eyes.
R38 Irritating to skin.
NC Not classified.
R66 Repeated exposure may cause skin dryness or cracking.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.