



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 T : 44 (0) 1223 836400 F : 44 (0) 1223 836686 sds@plasti-kote.co.uk
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.

CLASSIFICATION (1999/45) Not classified.

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

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

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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/PERSONAL PROTECTION

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ACETONE	WEL	500 ppm	1210 mg/m3	1500 ppm	3620 mg/m3	
BARIUM SULPHATE	WEL		4 mg/m3			
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3	
ETHYLBENZENE	WEL	100 ppm	441 mg/m3	125 ppm	552 mg/m3	Sk
IRON OXIDE	WEL		5 mg/m3		10 mg/m3	as Fe
ISOBUTYL ACETATE	WEL	150 ppm	724 mg/m3	187 ppm	903 mg/m3	
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	
TITANIUM DIOXIDE	WEL		4 mg/m3			
XYLENE	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk

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 TEMPERATURE (°C)	410-580
FLAMMABILITY LIMIT - LOWER(%)	1.8%
FLAMMABILITY LIMIT - UPPER(%)	9.5%

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.

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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.

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

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.

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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 Onchorhyncus 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

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

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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



Irritant



Extremely flammable

RISK PHRASES

R12

Extremely flammable.

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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

Health and Safety at Work Act 1974. Chemicals (Hazard Information & Packaging) Regulations.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. Aerosol directive 75/324/EEC as amended by 94/01/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. The Aerosol Dispensers Regulations 1977 and 1997.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British Aerosol Manufacturers Association Standard

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.