Revision Date: 28/04/2011

SAFETY DATA SHEET
Premium Gloss Colours

According to Regulation (EC) No 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Premium Gloss Colours
Internal Id A21100-21121

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

Identified uses Speciality Paint
Uses Advised Against Must not be handled in confined space without sufficient ventilation.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

+44(0)1223 836400 (08:30am to 16:00pm Monday-Friday)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xi;R36. F+;R12. R66, R67.

Human Health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Spray and vapour in the eyes may cause irritation and smarting.

Environment

The product is not expected to be hazardous to the environment.

Physical And Chemical Hazards

The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Containers can burst violently when heated, due to excess pressure build-up.

2.2. Label elements

Labelling

Irritant

Extremely Flammable

Risk Phrases

R12	Extremely flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

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.
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.
S51	Use only in well-ventilated areas.

2.3. Other hazards

This product does not contain any PBT or vPvB Substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

ACETONE **30-60%**

CAS-No.: 67-64-1 **EC No.: 200-662-2**

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 - H225	F;R11
EUH066	Xi;R36
Eye Irrit. 2 - H319	R66
STOT Single 3 - H336	R67

BUTANE **5-10%**

CAS-No.: 106-97-8 **EC No.: 203-448-7**

Substance with National workplace exposure limits

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Gas 1 - H220	F+;R12

n-BUTYL ACETATE **5-10%**

CAS-No.: 123-86-4 **EC No.: 204-658-1**

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
EUH066	R66
STOT Single 3 - H336	R67

TITANIUM DIOXIDE **1-5%**

CAS-No.: 13463-67-7 **EC No.: 236-675-5**

Substance with National workplace exposure limits

Classification (EC 1272/2008)	Classification (67/548/EEC)
Not classified.	Not classified.

2-(PROPYLOXY)ETHANOL		**1-5%**
CAS-No.: 2807-30-9	**EC No.: 220-548-6**	
Classification (EC 1272/2008) Acute Tox. 4 - H312 Eye Irrit. 2 - H319	Classification (67/548/EEC) Xn;R21 Xi;R36	

ISOBUTYL ACETATE		**1-5%**
CAS-No.: 110-19-0	**EC No.: 203-745-1**	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066	Classification (67/548/EEC) F;R11 R66	

1,2,4-TRIMETHYLBENZENE		**< 1%**
CAS-No.: 95-63-6	**EC No.: 202-436-9**	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT Single 3 - H335 Aquatic Chronic 2 - H411	Classification (67/548/EEC) R10 Xn;R20 Xi;R36/37/38 N;R51/53	

2-METHOXY-1-METHYLETHYL ACETATE		**< 1%**
CAS-No.: 108-65-6	**EC No.: 203-603-9**	
Classification (EC 1272/2008) Flam. Liq. 3 - H226	Classification (67/548/EEC) R10	

SOLVENT NAPHTHA, LIGHT AROMATIC		**< 1%**
CAS-No.: 64742-95-6	**EC No.: 265-199-0**	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT Single 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.	

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.

Move the exposed person to fresh air at once. Place unconscious person on the side in the recovery position and ensure breathing 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
Spray in the eyes: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General Information
The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation.
Vapours may cause headache, fatigue, dizziness and nausea. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
Ingestion
Due to the physical nature of this material it is unlikely that swallowing will occur. May cause nausea, headache, dizziness and intoxication.
Skin Contact
Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.
Eye Contact
Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media
Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable Extinguishing Media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
Unusual Fire & Explosion Hazards
Aerosol cans may explode in a fire. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. 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.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved. Use water spray to reduce vapours.
Protective Measures In Fire
Wear full protective clothing. Use air-supplied respirator during fire fighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid inhalation of vapours and aerosol spray. In case of inadequate ventilation use suitable respirator. Avoid contact with skin and eyes.

6.2. Environmental precautions

Exposure to aquatic environment unlikely. Avoid discharge into drains.

6.3. Methods and material for containment and cleaning up

Clean contaminated area with oil-removing material.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. During application and drying, solvent vapours will be emitted. Avoid inhalation of vapours and spray mists. Keep away from heat, sparks and open flame. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Paint

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1,2,4-TRIMETHYLBENZENE	WEL	25 ppm	125 mg/m3			
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm	274 mg/m3	100 ppm	548 mg/m3	Sk
ACETONE	WEL	500 ppm	1210 mg/m3	1500 ppm	3620 mg/m3	
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3	
ISOBUTYL ACETATE	WEL	150 ppm	724 mg/m3	187 ppm	903 mg/m3	
n-BUTYL ACETATE	WEL	150 ppm	724 mg/m3	200 ppm	966 mg/m3	
TITANIUM DIOXIDE	WEL		4 mg/m3			

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

8.2. Exposure controls

Protective Equipment

Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Wear mask supplied with: Gas cartridge suitable for organic substances.

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 with soap & water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove non-impervious clothing that becomes contaminated.

Thermal Hazards
Contains petroleum gas, liquefied. Contact with liquid form may cause frostbite.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Misc. colours
Odour	Organic solvents.
Solubility	Immiscible with water Soluble in: Organic solvents.
Initial Boiling Point and Boiling Range:	-42 °C - 0 °C @ 760 mm Hg (petroleum gas)
Melting Point (°C) Not available.	 Technically not feasible.
Relative Density	~ 0.85
Vapour Density (Air=1)	>1 The product contains organic solvents which will evaporate easily from all surfaces.
Flash Point (°C)	< -60°C CC (Closed cup). (petroleum gas)
Auto Ignition Temperature (°C)	~ 450 °C (petroleum gas)
Flammability Limit - Lower(%)	2 % (petroleum gas)
Flammability Limit - Upper(%)	10 % (petroleum gas)

9.2. Other information

Volatility Description	Highly volatile.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not applicable.

Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid

When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Avoid heat, flames and other sources of ignition. Aerosol containers can explode when heated, due to excessive pressure build-up. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid
Strong oxidising substances.

10.6. Hazardous decomposition products

None at ambient temperatures. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation
In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
Ingestion.
No harmful effects expected in amounts likely to be ingested by accident. May cause discomfort if swallowed. May irritate and cause stomach pain, vomiting and diarrhoea.
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.
Route of entry
Inhalation. Skin and/or eye contact.
Target Organs
Eyes Central nervous system Respiratory system, lungs

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	**n-BUTYL ACETATE**
Toxic Dose 1 - LD 50	13100 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>17600 mg/kg (dermal rabbit)
Toxic Conc. - LC 50	>21.1 mg/l/4h (inh-rat)
Name	**ISOBUTYL ACETATE**
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	**1,2,4-TRIMETHYLBENZENE**
Toxic Dose 1 - LD 50	6000 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>3440 mg/kg
Toxic Conc. - LC 50	>2000 ppm/4h (inh-rat)
Name	**2-METHOXY-1-METHYLETHYL ACETATE**
Toxic Dose 1 - LD 50	6190 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>5000 mg/kg (dermal rabbit)
Toxic Conc. - LC 50	>4345 ppm/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)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Acute Fish Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability

Degradability:
The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Volatile substances are degraded in the atmosphere within a few days.

12.3. Bioaccumulative potential

Bioaccumulative Potential:
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility:
The product is immiscible with water and will spread on the water surface. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

12.6. Other adverse effects

Not applicable.

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	**n-BUTYL ACETATE**
Partition Coefficient	2.3
LC 50, 96 Hrs, Fish mg/l	18 mg/L Pimephales promelas (Fathead Minnow)
EC 50, 48 Hrs, Daphnia, mg/l	72.8 mg/L Daphnia Magna (24 h)
IC 50, 72 Hrs, Algae, mg/l	674.7 mg/L Scenedesmus subspicatus

Mobility

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

Bioaccumulative Potential

Will not bio-accumulate.

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	**1,2,4-TRIMETHYLBENZENE**
Partition Coefficient	3.63
LC 50, 96 Hrs, Fish mg/l	7.72 mg/L Pimephales promelas
EC 50, 48 Hrs, Daphnia, mg/l	3.6 mg/L Daphnia magna

Mobility

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

Bioaccumulative Potential

Will not bio-accumulate.

Degradability

The product is biodegradable.

Name	**2-METHOXY-1-METHYLETHYL ACETATE**
Partition Coefficient	1.2
LC 50, 96 Hrs, Fish mg/l	130 mg/L Onchorhycus mykiss
EC 50, 48 Hrs, Daphnia, mg/l	>500 mg/L Daphnia magna
IC 50, 72 Hrs, Algae, mg/l	>1000 mg/L Selenastrum capricornutum

Mobility

Volatile. The product is water soluble and may spread in water systems.

Bioaccumulative Potential

Will not bio-accumulate.

Degradability

The substance is readily 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

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.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not puncture or incinerate even when empty.

13.1. Waste treatment 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.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2 UN Proper shipping name

Proper Shipping Name AEROSOLS (IATA : Aerosols, flammable)

14.3 Transport hazard class(es)

ADR/RID/ADN Class	2 (5F)
ADR Label No.	2.1
IMDG Class	2.1
ICAO Class/Division	2.1

Transport Labels

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-D, S-U
Tunnel Restriction Code	(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant.

SECTION 15: REGULATORY INFORMATION

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

Environmental Listing
No listing noted.
Statutory Instruments
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved Code Of Practice
British Aerosol Manufacturers Association Standard
EU Legislation
Dangerous Preparations Directive 1999/45/EC. 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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
National Regulations
The Aerosol Dispensers Regulations 2009 (SI 2824) The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Health And Environmental Listings
Regulation EC 2037/2000 on substances that deplete the ozone layer. Regulation EC 850/2004 on persistent organic pollutants. Regulation EC 689/2008 concerning the export and import of dangerous chemicals. None of the ingredients are listed.
Authorisations (Title VII Regulation 1907/2006)
No specific authorisations are noted for this product.
Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date 28/04/2011

Risk Phrases In Full

R12	Extremely flammable.
R10	Flammable.
R20	Harmful by inhalation.
R21	Harmful in contact with skin.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
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.

Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.
H411	Toxic to aquatic life with long lasting effects.

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.