



SAFETY DATA SHEET

Krystal Clear

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	Krystal Clear
PRODUCT NO.	A547-549B
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

Extremely flammable. Irritating to eyes.

CLASSIFICATION Xi;R36. F+;R12.

ENVIRONMENT

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

PHYSICAL AND CHEMICAL HAZARDS

Pressurised container: Must not be exposed for 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 are narcotic and may cause headache, fatigue, dizziness and nausea.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DIMETHYL ETHER	204-065-8	115-10-6	30-60%	F+;R12
2-BUTOXYETHANOL	203-905-0	111-76-2	5-10%	Xn;R20/21/22 Xi;R36/38
PROPAN-2-OL	200-661-7	67-63-0	5-10%	F;R11 Xi;R36 R67
BUTANOL-norm	200-751-6	71-36-3	1-5%	R10 Xn;R22 Xi;R37/38,R41 R67
TALC	238-877-9	14807-96-6	1-5%	-
BUTAN-2-OL	201-158-5	78-92-2	1-5%	R10 Xi;R36/37 R67
ETHANOL	200-578-6	64-17-5	< 1%	F;R11
TRIETHYLAMINE	204-469-4	121-44-8	< 1%	F;R11 C;R35 Xn;R20/21/22

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

4 FIRST-AID MEASURES

Krystal Clear

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

Water spray should be used to cool containers. Use water spray to reduce vapours. Warn firefighters that pressurised containers (aerosols) are 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 for 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. Pressurised 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

Krystal Clear

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-BUTOXYETHANOL	WEL	25 ppm		50 ppm		Sk
BUTAN-2-OL	WEL	100 ppm	308 mg/m3	150 ppm	462 mg/m3	
BUTANOL-norm	WEL			50 ppm	154 mg/m3	Sk
DIMETHYL ETHER	WEL	400 ppm	766 mg/m3	500 ppm	958 mg/m3	
ETHANOL	WEL	1000 ppm	1920 mg/m3			
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	
TALC	WEL		1 mg/m3			
TRIETHYLAMINE	WEL	2 ppm	8 mg/m3	4 ppm	17 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 Workplace Exposure Limit. In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Due to the nature of the application, aerosol, skin contact is unlikely. However if prolonged or repeated contact is possible use suitable protective gloves.

EYE PROTECTION

Eye protection is not normally required but approved safety goggles should be worn if eye contact is possible.

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	Information given concerns the major ingredient. 23 Flammable gas.		
COMMENTS			
FLASH POINT (°C)	<-41°C	FLAMMABILITY LIMIT - LOWER(%)	3.4%
FLAMMABILITY LIMIT - UPPER(%)	18.0%		

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.

HEALTH WARNINGS

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Inhalation of high concentrations of the gas or spray can lead to abnormal heart rhythms and possibly death.

Krystal Clear

ROUTE OF ENTRY

Inhalation.

TARGET ORGANS

Central nervous system. Respiratory system, lungs.

MEDICAL SYMPTOMS

Narcotic effect. Vapours may cause drowsiness and dizziness.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not expected to be toxic to aquatic organisms. Do not allow to enter drains, sewers or watercourses.

ACUTE FISH TOXICITY

The product is not expected to be toxic to aquatic organisms.

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)		
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
RID CLASS NO.	2, 5F	RID PACK GROUP	-
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.
- R36 Irritating to eyes.

Krystal Clear

SAFETY PHRASES

A1	Pressurised 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.
S25	Avoid contact with 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.

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 08-10-2009

RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/37	Irritating to eyes and respiratory system.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
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.