Flortex PU Twin Pack Gloss – Hardener



"maintenance made easy"

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: Flortex PU Twin Pack Gloss - Hardener

Company Name: Polycote UK

Centre Point • Wolseley Road Woburn Road Industrial Estate Kempston • Beds MK42 7EF

Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION

Classification under CLP:

Eye Dam. 1: H318; Acute Tox. 4: H332; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335; -: EUH204

Most Important

Adverse Effects:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. Contains isocyanates. May produce an allergic reaction. contact.

Hazard pictograms:





Signal word: Hazard Statments: Danger

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting

effects.

EUH204: Contains isocyanates. May produce an

allergic reaction.

Precautionary statements:

P261: Avoid breathing vapours.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P272: Contaminated work clothing should not be

allowed out of the workplace.

P302+P350: IF ON SKIN: Gently wash with plenty of

soap and water.

P304+P340: IF INHALED: Remove person to fresh air

and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P309+P311: IF exposed or if you feel unwell: Call a

POISON CENTER or doctor/physician.

P502: Refer to manufacturer or supplier for information on recovery or recycling. P312: Call a

POISON CENTRE/doctor if you feel unwell. P321: Specific treatment (see on this label).

P332+P313: If skin irritation occurs: Get medical

advice/attention.

P333+P313: If skin irritation or rash occurs: Get

medical advice/attention.

P370+P378: In case of fire: Use to extinguish.

P403+P235: Store in a well-ventilated place. Keep

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

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EINECS	CAS No:	Classification	%
HEXAMETHYLENE	-1,6-DIISOCYANAT	TE HOMOPOLYMER - REACH registered i	number(s):
01-2119485796	-17-000		
931-274-8	28182-81-2	STOT SE 3: H335; Acute Tox.	>90%
		4: H332; Skin Sens. 1: H317	
POLYOXYETHYLEN	E TRIDECYL ETHE	ER PHOSPHATE	
-	9046-01-9	Skin Irrit. 2: H315; Eye Dam. 1:	3-5%
		H318;Aquatic Chronic 2: H411	
ETHYLDIISOPROP'	YLAMINE - REACH	registered number(s): 01-211997318	31-39-
0000			
230-392-0	7087-68-5	Flam. Liq. 2: H225; Acute Tox. 3:	1-3%
		H331; Acute Tox. 4: H302; Eye	
		Dam. 1: H318; STOT SE 3: H335	
PHOSPHORIC ACI	D, BUTYL ESTER -	- REACH registered number(s): 01-	
2119970716-27	-0000		
235-826-2	12788-93-1	Skin Corr. 1B: H314	1-3%
HEXAMETHYLENE	-DI-ISOCYANATE -	REACH registered number(s): 01-2119	9457571-
37-0000			
212-485-8	822-06-0	Acute Tox. 3: H331; Eye Irrit. 2:	<1%
		H319; STOT SE 3: H335; Skin	
		Irrit. 2: H315; Resp. Sens. 1:	

SECTION 4: FIRST AID MEASURES

Inhalation: Remove casualty from exposure ensuring one's own safety

whilst doing so. Consult a doctor.

Bathe the eye with running water for 15 minutes. Transfer Eye contact:

to hospital for specialist examination.

Remove all contaminated clothes and footwear Skin contact:

immediately unless stuck to skin. Wash immediately with plenty of soap and water. Transfer to hospital if there are

H334; Skin Sens. 1: H317

burns or symptoms of poisoning.

Wash out mouth with water. Do not induce vomiting. If Ingestion: conscious, give half a litre of water to drink immediately.

Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed

There may be irritation and redness at the site of contact. Skin contact:

There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is

not immediate.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may

become blurred. May cause permanent damage.

There may be soreness and redness of the mouth and Ingestion:

throat. Nausea and stomach pain may occur. There may be vomiting and diarrhoea. Blood may be vomited. Headaches or general malaise may result. Corrosive burns may

appear around the lips.

There may be irritation of the throat with a feeling of Inhalation:

tightness in the chest.

Delayed/ immediate

effects: Immediate effects can be expected after short-term

exposure.

Immediate/ special

treatment: Show this safety data sheet to the doctor in attendance.

Immediate medical attention is required. Eye bathing equipment should be available on the premises.

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SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding

fire should be used. Carbon dioxide. Dry chemical

powder. Do not use water.

Exposure hazards: In combustion emits toxic fumes.

Advice for firefighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin

and eves.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details. Remove all incompatible materials as outlined in section 10 of SDS.

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods for cleaning up:

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

SECTION 7: HANDLING AND STORAGE

Avoid direct contact with the substance. Ensure there is Handling:

sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Ensure there is exhaust

ventilation of the area.

Store in a cool, well ventilated area. Keep container tightly Storage:

closed. The floor of the storage room must be

impermeable to prevent the escape of liquids.

Suitable

packaging: Must only be kept in original packaging.

Specific end use(s):

PC1: Adhesives, sealants. PC9a: Coatings and paints,

thinners, paint removers.

SECTION 8: EXPOSURE CONTROLS

Exposure limit values:

2-methoxy-1-methylethyl acetate (1-Methoxypropylacetate)

WEL 8-hr limit mg/m3: 274 WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100 WEL 15 min limit mg/m³: 548 WEL 15 min limit mg/m³ total -WEL 8-hr limit mg/m3 total inhalable dust: inhalable dust: WEL 8-hr limit mg/m3 total -WEL 15 min limit mg/m3 total -

inhalable dust: inhalable dust:

Ethylbenzene

WEL 8-hr limit ppm: 100 WEL 8-hr limit mg/m³: 441 WEL 15 min limit ppm: 125 WEL 15 min limit mg/m³: 552 Hexamethylene-di-isocyanate WEL 8-hr limit ppm: -WEL 8-hr limit mg/m³: 0.02

WEL 15 min limit ppm: WEL 15 min limit mg/m³: -

Xylene (Xylene, o-,m-,-p-or mixed isomers)

WEL 8-hr limit ppm: 50 WEL 8-hr limit mg/m3: 220 WEL 15 min limit ppm: WEL 15 min limit mg/m³: 441

Exposure controls:







Engineering measures: Ensure adequate ventilation of the working area.

Eye/face protection: Wear eye/face protection. Skin/Hand protection: Wear suitable gloves.

Skin protection (other): Wear suitable protective clothing.

HEXAMETHYLENE-DI-ISOCYANATE

Workplace exposure limits: Respirable dust:

State 8 hour TWA 15 min. STEL 8 hour TWA 15 min. STEL 0.02 mg/m3 0.07 mg/m3 UK

DNEL/PNEC Values;

Type	Exposure	Value	Effect
DNEL	Inhalation (Acute)	0.5 mg/m ³	Local
DNEL	Inhalation (Chronic)	1 mg/m³	Local
PNEC	Fresh water	0.127 mg/L	-
PNEC	Marine water	0.013 mg/L	-
PNEC	Fresh water sediments	266 701 mg/kg	-
PNEC	Marine sediments	26 670 mg/kg	-
PNEC	Soil (agricultural)	53 183 mg/kg soi	-

ETHYLDIIS	SOPROPYLAMINE		
DNEL	Inhalation (repeated dose)	4.2 mg/m ³	Systemic
DNEL	Inhalation	12.6 mg/m ³	Systemic
DNEL	Inhalation (repeated dose)	4.2 mg/m ³	Local
DNEL	Inhalation	12.6 mg/m ³	Local
DNEL	Dermal (repeated dose)	2.96 mg/kg bw/day	Systemic
DNEL	Inhalation (repeated dose)	0.5 mg/m ³	Systemic
DNEL	Inhalation (repeated dose)	0.5 mg/m ³	Local
DNEL	Oral (repeated dose)	1.05 mg/kg bw/day	Systemic
PNEC	Fresh water	0.173 mg/L	-
PNEC	Marine water	0.017 mg/L	-
PNEC	Fresh water sediments	41.09 mg/kg	-

4.11 mg/kg

35.3 mg/m³

872.4 mg/m³

4 mg/kg food

10 mg/kg bw/day

8.12 mg/kg soil dw

Systemic

Systemic

Systemic

PNEC Soil (agricultural) PHOSPHORIC ACID, BUTYL ESTER

Inhalation

Marine sediments

Inhalation (repeated dose)

Dermal (repeated dose)

PNEC

DNEL

DNEL

DNEL

PNFC

DNEL	Dermal	123.7 mg/kg bw/day	Systemic
DNEL	Inhalation (repeated dose)	8.7 mg/m ³	Systemic
DNEL	Inhalation	215.1 mg/m ³	Systemic
DNEL	Dermal (repeated dose)	5 mg/kg bw/day	Systemic
DNEL	Dermal	61.9 mg/kg bw/day	Systemic
DNEL	Oral (repeated dose)	5.0 mg/kg bw/day	Systemic
DNEL	Oral	61.9 mg/kg bw/day	Systemic
PNEC	Fresh water	100 μg/L	-
PNEC	Marine water	10 μg/L	-
PNEC	Fresh water sediments	392 µg/kg sediment	-
PNEC	Marine sediments	39.2 µg/kg sedimen	t-
PNEC	Soil (agricultural)	19.7 μ g/kg soil dw	-

Food chain HEXAMETHYLENE-DI-ISOCYANATE

DNEL	Inhalation (repeated dose)	0.035 mg/m ³	Local
DNEL	Inhalation	0.07 mg/m ³	Local
DNEL	Inhalation (repeated dose)	0.035 mg/m ³	Systemic
DNEL	Inhalation	0.07 mg/m ³	Systemic
PNEC	Fresh water	0.0774 mg/L	-
PNEC	Marine water	0.000774 mg/L	-

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Exposure Controls:

Engineering

Measures: Ensure there is sufficient ventilation of the area. Ensure

> there is exhaust ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are

in place.

Respiratory Protection:

Self-contained breathing apparatus must be available in

case of emergency.

Hand

Protection: Protective gloves. Gloves (alkali-resistant). Breakthrough

time of the glove material > 2 hours. BS EN 374:2003 /

EN ISO 374-1:2016

Eye Protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin Protection: Protective clothing.

Environmental: Refer to specific Member State legislation for

requirements under Community environmental legislation.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

State: Liquid Pale Yellow Colour:

Odour: Characteristic Odour

Flash point: >106 Viscosity: Viscous Kinematic Viscosity:1800

Viscosity test

method: Kinematic viscosity in 10-6 m2/s at 40°C (ISO

3104/3105)

Relative Density: 1.145 g/ml

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage

conditions.

Chemical stability: Stable under normal conditions.

Hazardous reactions: Hazardous reactions will not occur under normal

transport or storage conditions. Decomposition may occur on exposure to conditions or

materials listed below.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids. Haz. decomp. products: In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity values:

Route **Species** Test Value Units **DERMAL RAT** LD50(ATE) >2000 mg/kg RAT ORAL LD50 (ATF) 1870 mg/kg **VAPOURS** RAT 4H LC50 (ATE) 10.65 mg/l

Hazardous Ingredients:

HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER

RAT LD50 > 2000 DFRMAI mg/kg RRT DERMAL LD50 > 2000 mg/kg ORAL RAT LD50 > 2500 mg/kg **ETHYLDIISOPROPYLAMINE** DUST/MIST **RAT** 4H LC50 2.46 mg/l **ORAL** RAT LD50 317 mg/kg

HEXAMETHYLENE-DI-ISOCYANATE IVN MUS LD50 5600 µg/kg ORL MUS LD50 350 mg/kg ORL RAT LD50 710 µl/kg

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Kempston • Beds • MK42 7EF Technical Helpline: 01234 846400 Relevant hazard for product:

Hazard Route **Basis**

Hazardous: calculated Acute toxicity (ac. tox. 4) INH Skin corrosion/irritation DRM Hazardous: calculated Serious eye damage/irritation OPT Hazardous: calculated Respiratory/skin sensitisation DRM Hazardous: calculated STOT-single exposure INH Hazardous: calculated

Symptoms/route of exposure:

Skin contact: There may be irritation and redness at the site of

> contact. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Progressive ulceration

will occur if treatment is not immediate.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The

vision may become blurred. May cause permanent

damage.

Ingestion: There may be soreness and redness of the mouth

and throat. Nausea and stomach pain may occur. There may be vomiting and diarrhoea. Blood may be vomited. Headaches or general malaise may result. Corrosive burns may appear around the lips.

Inhalation: There may be irritation of the throat with a feeling of

tightness in the chest.

Delayed/immediate

effects: Immediate effects can be expected after short-term

exposure.

SECTION 12: **ECOLOGICAL INFORMATION**

Hazardous ingredients:

HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER

LC5022 Danio rerio (zebra fish) 96H mg/l Daphnia magna 48H EC50> 100 mg/l ErC50> 77.4 mg/l Scenedesmus Subspicatus 72H

POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE

Daphnia magna 48H EC5010 mg/l

ETHYLDIISOPROPYLAMINE

Daphnia magna 48H FC5028.2 mg/l RAINBOW TROUT (Oncorhynchus mykiss) 72H ErC50150 mg/l ZEBRAFISH (Brachydanio rerio) LC5069.7 mg/I

Persistance & Degradability: Biodegradable.

Bioaccumulative Detail: No bioaccumulation potential. Mobility: Readily absorbed into soil.

Other adverse effects: Harmful to aquatic organisms. Harmful to soil

organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Dispose in accordance with applicable international, national and local laws, ordinances

and satutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

After final product withdrawel, all residues must be removed from containers (drip-free, powder-free or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. Containers must be recycled in

compliance with national legislation and

environmental regulations.

Recovery Operations: Waste Code Number: Not applicable 08 02 99

Disposal of packaging: Dispose of in a regulated landfill site or other

method for hazardous or toxic wastes.

NB:

The user's attention is drawn to the possible existence of regional or national regulations

regarding disposal.

SECTION 14: TRANSPORT INFORMATION

This product does not require a classification for transport.

SECTION 15: REGULATORY INFORMATION

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.".

Hazard statements

used in s.2&.3: EUH204: Contains isocyanates. May produce an allergic

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

All the foregoing information should be regarded as being applicable to the uncured mixed product as well as to the individual components.

This material may form part of a multi component pack, and is supplied in the correct proportions for that pack. Please check all of the product labels to ensure that the correct components and pack sizes are being used. Select and use appropriate pack sizes to minimise waste and operator exposure, do not split packs. Use in batch order.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

he information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

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