



Liquid Plastics

SAFETY DATA SHEET DECOTHANE EC

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	DECOTHANE EC
APPLICATION	Surface coating for the building and construction industry
SUPPLIER	LIQUID PLASTICS LIMITED IOTECH HOUSE MILLER STREET PRESTON LANCASHIRE PR1 1EA T:+44(0)1772 259781 F:+44(0)1772 255670 info@liquidplastics.co.uk
EMERGENCY TELEPHONE	+ 44(0)870 190 6777 (24hr, ENG)

2 HAZARDS IDENTIFICATION

Harmful by inhalation. May cause sensitisation by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R20. R42/43. N;R51/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-METHOXY-1-METHYLETHYL ACETATE	203-603-9	108-65-6	10-30%	R10 Xi;R36
DIPHENYLCRESYL PHOSPHATE	247-693-8	26444-49-5	5-10%	N;R51/53.
ISOPHORONE DI-ISOCYANATE	223-861-6	4098-71-9	< 1%	T;R23 R42/43 Xi;R36/37/38 N;R51/53
PROPYL ACETATE	203-686-1	109-60-4	1-5%	F;R11 Xi;R36 R66 R67
TRIPHENYL PHOSPHATE	204-112-2	115-86-6	1-5%	N;R50/53.

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove affected person from source of contamination.

INHALATION

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

INGESTION

Immediately rinse mouth and provide fresh air. Consult a physician for specific advice. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention if any discomfort continues.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

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 and get medical attention. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

DECOTHANE EC**EXTINGUISHING MEDIA**

Fire can be extinguished using: Foam. Powder. Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Containers close to fire should be removed or cooled with water. If risk of water pollution occurs, notify appropriate authorities.

UNUSUAL FIRE & EXPLOSION HAZARDS

May ignite at high temperature.

SPECIFIC HAZARDS

Closed containers can burst violently when heated, due to excess pressure build-up.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing. Use air-supplied respirator during fire fighting.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

SPILL CLEAN UP METHODS

Ventilate well. Should be prevented from entering drains. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not use in confined spaces without adequate ventilation and/or respirator. During application and drying, solvent vapours will be emitted. Persons with impaired lung functions should not handle this preparation. Persons susceptible for allergic reactions should not handle this product. Wear full protective clothing for prolonged exposure and/or high concentrations.

STORAGE PRECAUTIONS

Store in a dry place. Protect from freezing and direct sunlight. Store below 25°C. Avoid storing for very long periods.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm(Sk)	274 mg/m3(Sk)	100 ppm(Sk)	548 mg/m3(Sk)
ISOPHORONE DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)
PROPYL ACETATE	WEL	200 ppm	849 mg/m3	250 ppm	1060 mg/m3

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**PROCESS CONDITIONS**

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. Wear respiratory protection with combination filter (dust and gas filter) during spraying operations.

DECOTHANE EC**HAND PROTECTION**

Wear protective gloves. Nitrile gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear tight-fitting goggles or face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid		
COLOUR	Black		
ODOUR	Hydrocarbon Solvent.		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	>100@ 760 mm Hg	RELATIVE DENSITY	~1.3
VAPOUR DENSITY (air=1)	>1	VOLATILE BY VOL. (%)	23.3
FLASH POINT (°C)	45	FLAMMABILITY LIMIT - LOWER(%)	1.5
FLAMMABILITY LIMIT - UPPER(%)	10.8	VOC (2004/42/EC) category	(A/I): 600 g/l (2007)/ 500 g/l (2010)
VOLATILE ORGANIC COMPOUND (VOC)	223 g/litre		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time. Avoid contact with water. The product will harden into a hard mass in contact with water and moisture.

HAZARDOUS DECOMPOSITION PRODUCTS

If heated, vapours/gases hazardous to health (e.g. CO, NO_x, isocyanates) may be formed.

11 TOXICOLOGICAL INFORMATION**GENERAL INFORMATION**

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

INHALATION

Harmful by inhalation. May cause sensitisation by inhalation. Vapour from this chemical can be hazardous when inhaled. May cause an asthma-like shortness of breath. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

May cause sensitisation by skin contact. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.

EYE CONTACT

Irritating to eyes.

Other Health Effects

Toxic to Reproductive Health Categ. 3.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DECOTHANE EC

MOBILITY

The product is immiscible with water and will sediment in water systems. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

The product is not readily biodegradable.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Contact supplier for disposal information.

14 TRANSPORT INFORMATION



UK ROAD CLASS	9		
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diphenylcresyl phosphate, Triphenyl phosphate)		
UN NO. ROAD	3082	UK ROAD PACK GR.	III
ADR CLASS NO.	9	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.
ADR PACK GROUP	III	HAZARD No. (ADR)	90
ADR LABEL NO.	9	HAZCHEM CODE	3Z
CEFIC TEC(R) NO.	90GM6-III	RID CLASS NO.	9
RID PACK GROUP	III	UN NO. SEA	3082
IMDG CLASS	9	IMDG PACK GR.	III
EMS	F-A, S-F	MFAG	See Guide
MARINE POLLUTANT		UN NO. AIR	3082



AIR CLASS	9	AIR PACK GR.	III
-----------	---	--------------	-----

15 REGULATORY INFORMATION

LABELLING



Harmful



Dangerous for the environment

CONTAINS

ISOPHORONE DI-ISOCYANATE

DECOTHANE EC

RISK PHRASES

R20	Harmful by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S23	Do not breathe vapour/spray.
S24	Avoid contact with skin.
S37	Wear suitable gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
P4	Contains isocyanates. See information supplied by the manufacturer.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

GENERAL INFORMATION

Only trained personnel should use this material.

ISSUED BY

Mr. R.F. Stanfield (Technical Director)

REVISION DATE 31/05/2007

REV. NO./REPL. SDS GENERATED 3

RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R23	Toxic by inhalation.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic 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.

DISCLAIMER

The information given is believed to be correct but does not claim to be all inclusive and is to be used only as a guide. This company will not be held liable for any damage resulting from handling or from contact with this product. Do not use without referring to the product and safety data sheet. Refer to all local, national and international regulations. Protect from frost and heat - stir before use. Manufactured in the E.U. under an ISO9000 registered system.