



SAFETY DATA SHEET

Prefere 5325X (Hardener GBPX)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME Prefere 5325X (Hardener GBPX)
APPLICATION Liquid hardener for speciality adhesives.
SUPPLIER Dynea UK Ltd.
 Alyn Works,
 Denbigh Road,
 Mold, Flintshire CH7 1BF
 Tel: 01352 757657
 Emergency Tel: 01352 750416

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
FORMIC ACID ...%	200-579-1	64-18-6	30-60%	C;R35

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

3 HAZARDS IDENTIFICATION

Causes burns.

CLASSIFICATION C;R34.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

DO NOT induce vomiting. Get medical attention immediately. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious.

SKIN CONTACT

Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues.

EYE CONTACT

Rinse the eye with water immediately. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray. Foam. Alcohol resistant foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

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SPILL CLEAN UP METHODS

Stop leak if possible without risk. DO NOT touch spilled material! Neutralise spilled material with crushed limestone, soda ash or lime. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Provide good ventilation. Avoid spilling, skin and eye contact. Change clothing after finished handling of the product.

STORAGE PRECAUTIONS

Use container made of: Suitable plastic material. Keep containers tightly closed. Keep away from heat, sparks and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
FORMIC ACID ...%	OES	5 ppm	9.6 mg/m3		

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash. Rubber (natural, latex). Neoprene. Nitrile. Polyethylene. Polyvinyl chloride (PVC).

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Provide eyewash station. Use engineering controls to reduce air contamination to permissible exposure level.

HYGIENE MEASURES

Promptly remove any clothing that becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Acidic.		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	~ 100	RELATIVE DENSITY	1.072-1.076 @ 25 °C
pH-VALUE, CONC. SOLUTION	Acid	VISCOSITY	<50 mPas @ 25 °C
FLASH POINT (°C)	>65		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

MATERIALS TO AVOID

Bases, alkalis (inorganic). Other metals or alloys.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

LD50 (oral, rat): 730-1830mg/kg (Formic Acid)

Prefere 5325X (Hardener GBPX)

INHALATION

May cause irritation to the respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

INGESTION

May cause internal injury. May cause chemical burns in mouth, oesophagus and stomach.

SKIN CONTACT

Strongly irritating. Prolonged contact may cause burns.

EYE CONTACT

May cause chemical eye burns. Risk of serious damage to eyes.

MEDICAL SYMPTOMS

Irritation of eyes and mucous membranes. Upper respiratory irritation. Skin irritation. General respiratory distress, unproductive cough. Nausea, vomiting.

MEDICAL CONSIDERATIONS

Skin disorders and allergies.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

MOBILITY

The product is soluble in water.

ACUTE FISH TOXICITY

LC50 24Hr (Bluegill): 175mg/l (Formic Acid)

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	FORMIC ACID		
UN NO. ROAD	1779	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
HAZARD NO. (ADR)	80 Corrosive or slightly corrosive substance.	HAZCHEM CODE	2X

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS

FORMIC ACID ...%

RISK PHRASES

R34 Causes burns.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

REVISION DATE: 08-07-2004

Prefere 5325X (Hardener GBPX)

S60

This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

EH40 Occupational Exposure Limits. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EEC. Safety data sheet directive 91/155.

16 OTHER INFORMATION

REVISION COMMENTS

Change of product name. Toxicity data added to sections 11 and 12.

REVISION DATE 08-07-2004

RISK PHRASES IN FULL

R35 Causes severe burns.