



01/01/14

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: HPC 92 Nu-Flame A.G. Glaze
SUPPLIER: Hydron Protective Coatings Ltd
Unit 7 Phoenix Road, Wednesfield, Wolverhampton, WV11 3PX
TEL: 01902 450950 FAX: 01902 451050

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2. COMPOSITION/INFORMATION OF INGREDIENTS

A 2-pack system comprising a water-based clear resin solution (base) and a solvent-free Polyisocyanate hardener. The base and hardener are supplied in separate containers to be mixed together at the site of application.

% by weight	CAS No	Hazard Symbols	R-Phrases
Composition of base:			
Contains no hazardous ingredients	(91/155/EEC)	Non hazardous	
Composition of hardener:			
Aliphatic polyisocyanate approx 100 %	none	Xi	R43
Hexamethylene-1,6-diisocyanate <0.15 %	822-06-01 T		R23,36/37/38,42/43

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3. HAZARDS IDENTIFICATION

Base: Non-hazardous.
Hardener: Contains Isocyanates. See information supplied by manufacturer.

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4. FIRST AID MEASURES

Inhalation: Remove the affected person to fresh air and allow to rest.
Eye Contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding eyelids apart and seek medical advice.
Skin Contact: Wash skin thoroughly with soap and water or a proprietary skin cleaner. Do not use solvents or thinners.
Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.



5. FIRE FIGHTING MEASURES

Extinguishing media: Base: Carbon dioxide, dry powder, foam and water spray.
Special Hazards: If involved in a fire, may generate noxious or toxic vapours.
Extinguishing media: Activator CO2 Foam, Dry Powder
Special Hazards: If involved in a fire, may generate noxious or toxic vapours. Formation of carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide is possible. Fireman to wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear full protective clothing when dealing with a spillage.
Environmental Protection: Prevent from entering sewer systems, surface water and soil.
Method for cleaning up: Absorb with earth, sand or other absorbent materials. After one hour transfer to waste container and do not seal (CO2 !) keep damp in a safe ventilated area for several days.

7. HANDLING AND STORAGE

Handling: Wear goggles or a face shield, impervious gloves and protective clothing.
Storage: Store in a cool, well ventilated place away from foodstuffs. Keep containers dry and tightly sealed until mixing. Storage temperatures above 5-30.deg °C or below 0 deg.°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

During Application: Wear goggles or a face shield, impervious gloves and protective clothing. Respiratory protection is required in insufficiently ventilated working areas and during spraying.

9. PHYSICAL AND CHEMICAL PROPERTIES

	BASE.	HARDENER.
PHYSICAL STATE:	Liquid	Liquid
COLOUR:	Milky white	Yellowish
ODOUR:	Weak odour	Nearly odourless
VAPOUR PRESSURE:	Not applicable	approx 9 mbar @ 50 °C
BOILING POINT:	100 deg °C .	300°C
FLASH POINT:	N/A .	250 deg°C DIN 53213
DENSITY:	about 1.0 g/cm ³ at 20 deg°C	About 1.16 g/cm ³ at 20 deg°C DIN 53217
SOLUBILITY:	miscible with water	Insoluble in water
VISCOSITY:	50-200 APPROX 3800 MpA.S. @ 23°C	DIN 53019/1



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10. STABILITY AND REACTIVITY

Base: Stable under recommended storage conditions and in intended use and application. Avoid Elevated temperatures. Toxic fumes including carbon monoxide may be generated.

Hardener: Hazardous decomposition products. No hazardous decomposition products when stored and handled correctly. Hazardous reactions. Exothermic reaction with amines and alcohols reacts slowly with water forming Co₂. in closed Containers risk of burning owing to increase of pressure.

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11. TOXICOLOGICAL INFORMATION

Base: Ingestion of small quantities is unlikely to cause more than minor irritation . Possible irritant on repeated contact. May cause headaches, may cause dermatitis by prolong skin contact

Hardener: LD50 oral, rat: >500 mg/kg. Contains Isocyanates.
See information supplied by the manufacturer. Over-exposure without the necessary precautions entails risk of concentration-dependant irritation effects on eyes, nose throat and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low concentrations.

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12. ECOLOGICAL INFORMATION

Environmental Precautions

Base: Some components are expected to exhibit high mobility in soil and could leach to ground. If remaining near the surface of soil some components will evaporate slowly and may photo-oxidise and gradually degrade. This product is of low hazard but the low levels of residual monomers and surfactants may cause some irritation if the product is handled without due care and consideration.

Activator: As the compound is not readily biodegradable, long retention times in water are to be expected. This applies only in cases where no other elimination mechanisms (photodegradation, hydrolysis, adsorption) are active. In the light of the ecotoxicological data. The product is classified as toxic to fish. In the case of discharge into surface water where emissions of longer duration result in concentrations into the effective threshold at the outlaw damage to the ecosystem cannot be excluded.



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13. DISPOSAL CONSIDERATIONS

Waste: Burn in hazardous waste incinerator. Dispose of in accordance with local and national regulations.

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14. TRANSPORT INFORMATION

Not classified dangerous or restricted good within the meaning of National and International transport regulations.

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15. REGULATORY INFORMATION

Base: No hazard labels, R-phrases or S-phrases required. Keep container tightly closed when not in use.

Hardener: Regulations 1997 (CHIP 97) .Symbol Xi, hazard description irritant.
Contains isocyanates see information supplied by the manufacture.
R43 May cause sensitisation by skin contact. S24 Avoid contact with skin.

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16. OTHER INFORMATION

The Base and Hardener are mixed together in the approximate ratio as follows:-

Base: 70-90 % by weight.

Hardener: 10-30 % by weight.

All the foregoing information should be regarded as being applicable to the finished paint as well as to the individual bas and hardener products.

The information is accurate to the best knowledge of the company. Hydron does not accept liability whatsoever arising out of the use of the information, or any use, application, adaptation, or processing of the product described therein. Contact supplier for any further information