



# HYDRON

## Protective Coatings Ltd

### SAFETY DATA SHEET Nu-Base PU Floor Finish (Act)

According to Regulation (EU) No 453/2010  
According to Regulation (EC) No 1907/2006

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

Product name Nu-Base PU Floor Finish (Act)  
Product No. HPC 128

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Paint/Curing Agent/Activator

##### 1.3. Details of the supplier of the safety data sheet

Supplier Hydron Protective Coatings Ltd,  
Unit 7 Phoenix Road,  
Wednesfield  
Wolverhampton  
WV11 3PX  
+44 (0) 1902 450 950

Contact Person [enquiries@hydronpc.co.uk](mailto:enquiries@hydronpc.co.uk)

##### 1.4. Emergency telephone number

National Emergency Telephone Number  
+44 (0) 1902 450 950 08:30-17:00 MON-FRI

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC) R43, R10, R52/53, R67.

##### 2.2. Label elements

Contains ALIPHATIC POLYISOCYANATE

Labelling



Irritant

Risk Phrases

R10	Flammable.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

Safety Phrases

S23	Do not breathe vapour/spray.
S24	Avoid contact with skin.
S24/25	Avoid contact with skin and eyes.
S37	Wear suitable gloves.
S37/39	Wear suitable gloves and eye/face protection.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.
P4	Contains isocyanates. See information supplied by the manufacturer.

##### 2.3. Other hazards

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This product does not contain any PBT or vPvB substances.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

ALIPHATIC POLYISOCYANATE	60-100%
CAS-No.: 28182-81-2                      EC No.:	
Classification (EC 1272/2008) Skin Sens. 1 - H317	Classification (67/548/EEC) R43.
BUTYL ACETATE -norm	10-30%
CAS-No.: 123-86-4                      EC No.: 204-658-1	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336	Classification (67/548/EEC) R10 R66 R67
SOLVENT NAPHTHA, PETROLEUM; LIGHT AROMATIC	1-5%
CAS-No.: 64742-95-6                      EC No.:	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xn;R65. Xi;R37. N;R51/53. R10.
XYLENE	1-5%
CAS-No.: 1330-20-7                      EC No.: 215-535-7	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38
HEXAMETHYLENE-DI-ISOCYANATE	< 1%
CAS-No.: 822-06-0                      EC No.: 212-485-8	
Classification (EC 1272/2008) Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EEC) T;R23 R42/43 Xi;R36/37/38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

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### 4.1. Description of first aid measures

#### Inhalation

Get medical attention. Place unconscious person on the side in the recovery position and ensure breathing can take place. Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions.

#### Ingestion

Remove victim immediately from source of exposure. Immediately rinse mouth and drink plenty of water (200-300 ml). DO NOT induce vomiting. Get medical attention immediately.

#### Skin contact

Wash skin thoroughly with soap and water for several minutes. Get medical attention promptly if symptoms occur after washing. Use barrier creams to prevent skin contact. Remove contaminated clothes and rinse skin thoroughly with water.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Inhalation

Harmful if inhaled Vapours may cause headache, fatigue, dizziness and nausea.

#### Ingestion

Harmful if swallowed. May cause nausea, stomach pain and vomiting.

#### Skin contact

Skin irritation.

#### Eye contact

May cause severe irritation to eyes.

### 4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Extinguish with foam, carbon dioxide or dry powder.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed. Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapour and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

#### Unusual Fire & Explosion Hazards

FLAMMABLE.

#### Specific hazards

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive air mixtures even at room temperature. If a fire or if heated, a pressure increase will occur and the container may burst with the risk of subsequent explosion.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Keep up-wind to avoid fumes. Use water SPRAY only to cool containers! Do not put water on leaked material. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

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## 6.3. Methods and material for containment and cleaning up

Remove sources of ignition. Absorb with inert, damp, non-combustible material, then flush area with water. Collect in containers and seal securely. Remove containers and flush area with water. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

## 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. All handling to take place in well-ventilated area. Use non sparking handtools and explosion-proof electric equipment. Static electricity and formation of sparks must be prevented. Take precautionary measures against static discharges when there is a risk of dust explosion. Storage tanks and other containers must be grounded. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. In all cases where isocyanate aerosols and/or vapour concentrations are produced in elevated concentrations, exhaust ventilation systems must be provided in such a way that the workplace exposure limits (WEL) is not exceeded. The air should be drawn away from the personnel handling the product. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Restricted to professional users.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Keep away from food, drink and animal feeding stuffs. Flammable/combustible - Keep away from oxidisers, heat and flames.

Storage Class

Flammable liquid storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2. Restricted to professional users.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTYL ACETATE -norm	WEL	150 ppm	724 mg/m <sup>3</sup>	200 ppm	966 mg/m <sup>3</sup>	
HEXAMETHYLENE-DI-ISOCYANATE	WEL		0.02 mg/m <sup>3</sup> (Sen)		0.07 mg/m <sup>3</sup> (Sen)	
XYLENE	WEL	50 ppm(Sk)	220 mg/m <sup>3</sup> (Sk)	100 ppm(Sk)	441 mg/m <sup>3</sup> (Sk)	

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

#### XYLENE (CAS: 1330-20-7)

DNEL

Inhalation.

Short Term

442

mg/m<sup>3</sup>

### 8.2. Exposure controls

Protective equipment



Process conditions

Use only with adequate ventilation. Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Provide eyewash, quick drench.

Engineering measures

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

Respiratory equipment

In case of inadequate ventilation use suitable respirator. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended. Respiratory protection required in insufficiently ventilated working areas and during spraying.

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### Hand protection

Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin. Use suitable protective gloves if risk of skin contact. May cause sensitisation by skin contact. Risk of sensitisation or allergic reactions among sensitive individuals. Prolonged and frequent contact may cause redness and irritation.

### Eye protection

Wear approved safety goggles.

### Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

### Personal protection

In case of hypersensitivity of the respiratory tract and skin (eg asthmatics and those who suffer from chronic bronchitis and chronic skin complaint) it is inadvisable to work with this product.

### Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear
Odour	Characteristic.
Solubility	Insoluble in water
Initial boiling point and boiling range (°C)	
Not determined.	
Melting point (°C)	
Not applicable.	
Relative density	20°C 1.00 - 1.10
Vapour density (air=1)	
Not known.	
Vapour pressure	
Not known.	
Evaporation rate	
Not known.	
Decomposition temperature (°C)	
Not available.	
Odour Threshold, Lower	
Not known.	
Odour Threshold, Upper	
Not known.	
Flash point (°C)	> 25°C CC (Closed cup).
Auto Ignition Temperature (°C)	
Not known.	
Flammability Limit - Lower(%)	
Not known.	
Flammability Limit - Upper(%)	
Not known.	
Partition Coefficient (N-Octanol/Water)	
Not known.	
Explosive properties	
No information available.	
Comments	May form explosive mixtures with air

### 9.2. Other information

No information required.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

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Reaction with: Oxidising materials. This product will harden into a hard mass in contact with water and moisture.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

None under normal processing

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to conditions to heat or sources of ignition.

### 10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

### 10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information

No information available.

#### Acute toxicity:

Acute Toxicity (Oral LD<sub>50</sub>)

Not known.

#### Carcinogenicity:

Carcinogenicity

Not known.

General information

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

Route of entry

Inhalation. Ingestion. Skin and/or eye contact.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Isocyanates react with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (eg detergents) or by water soluble solvents. Previous experience shows that polyurea is inert and non bio-degradable.

Acute Toxicity - Fish

Not known.

### 12.2. Persistence and degradability

Degradability

The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential

The product contains potentially bioaccumulating substances.

Partition coefficient

Not known.

### 12.4. Mobility in soil

Mobility:

The product is insoluble in water and will spread on the water surface.

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## 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

## 12.6. Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Dispose in accordance with applicable international, national and local laws, ordinance and statutes. Any existing national regulations on the handling of isocyanates and solvents must be observed.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

### 14.2. UN proper shipping name

Proper Shipping Name	Paint or Paint related material
Proper Shipping Name	PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3.3
ICAO Class/Division	3
Transport Labels	No transport warning sign required.

### 14.4. Packing group

ADR/RID/ADN Packing group	31(c)
IMDG Packing group	III
ICAO Packing group	III

### 14.5. Environmental hazards

### 14.6. Special precautions for user

EMS	3-05
Emergency Action Code	3[Y]
Hazard No. (ADR)	30

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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## Uk Regulatory References

Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972.

## Environmental Listing

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

## Statutory Instruments

Control of Substances Hazardous to Health.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

## Guidance Notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

## EU Legislation

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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

### General information

Residual vapours may explode on ignition, do not cut, grind or weld on or near the container. Product to be used in industrial and/or professional applications.

Revision Date 23/07/14

Revision 0

Supersedes date 18/06/2014

SDS No. 11020

### Risk Phrases In Full

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R42/43 May cause sensitisation by inhalation and skin contact.

R43 May cause sensitisation by skin contact.

R66 Repeated exposure may cause skin dryness or cracking.

R23 Toxic by inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

### Hazard Statements In Full

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H412 Harmful to aquatic life with long lasting effects.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H335 May cause respiratory irritation.

EUH066 Repeated exposure may cause skin dryness or cracking.

H331 Toxic if inhaled.



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### 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.