

## SAFETY DATA SHEET NU-GUARD AG COLOUR

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

#### 1.1. Product identifier

Product name HPC 08 – Nu-Guard AG Colour

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

Identified uses Permanent Anti-Graffiti Coating

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

Supplier Hydron Protective Coatings Limited  
Unit 7  
Phoenix Road  
Wednesfield  
Wolverhampton  
WV11 3PX  
Tel: (+44) 1902 450950

#### 1.4. Emergency telephone number

01902 450950 (office hours only)

### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Skin Sens. 1 - H317
Environment	Not classified.

Classification (1999/45/EEC)

R43.

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

Human health

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

Environment

The product is not expected to be hazardous to the environment.

#### 2.2. Label elements

Contains METHYL-0,0'-BUTAN-2-ONE-TRIOXIMOSILANE  
BUTANONE OXIME VINYLSILANE

Label In Accordance With (EC) No. 1272/2008



Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P501 Dispose of contents/container to ...

Supplementary Precautionary Statements

P272 Contaminated work clothing should not be allowed out of the workplace.  
P261 Avoid breathing vapour/spray.  
P321 Specific treatment (see medical advice on this label).  
P302+352 IF ON SKIN: Wash with plenty of soap and water.  
P333+313 If skin irritation or rash occurs: Get medical advice/attention.

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P363

Wash contaminated clothing before reuse.

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE	1 - 5%
CAS-No.: 22984-54-9	EC No.: 245-366-4
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36/38.
BUTANONE OXIME VINYLSILANE	1 - 5%
CAS-No.: 2224-33-1	EC No.: 218-747-8
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318, H319 Eye Irrit. 2 - H318, H319	Classification (67/548/EEC) Xi;R36/38,R41.
3-(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXSILANE	< 1%
CAS-No.: 1760-24-3	EC No.: 217-164-6
Classification (EC 1272/2008) Acute Tox. 4 - H332 Eye Dam. 1 - H318 Skin Sens. 1 - H317	Classification (67/548/EEC) Xn;R20. Xi;R41. N;R51/53.

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

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### General information

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

##### Inhalation

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

##### Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately.

##### Skin contact

Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

##### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

##### Inhalation

No specific symptoms noted.

##### Ingestion

May cause discomfort if swallowed.

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Skin contact  
Mild dermatitis, allergic skin rash.  
Eye contact  
May cause temporary eye irritation.

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

Treat Symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media  
Water spray, fog or mist. 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  
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.  
Unusual Fire & Explosion Hazards  
No unusual fire or explosion hazards noted.  
Specific hazards  
Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures  
Water spray should be used to cool containers. Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire  
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. Follow precautions for safe handling described in this safety data sheet.

### **6.2. Environmental precautions**

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

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

Absorb in vermiculite, dry sand or earth and place into containers. Clean any slippery coating that remains using a detergent / soap solution or other biodegradable cleaner

### **6.4. Reference to other sections**

For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Persons susceptible to allergic reactions should not handle this product. Observe good chemical hygiene practices. Do not eat, drink or smoke when using the product

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

Store in tightly closed original container in a dry, cool and well-ventilated place.  
Storage Class  
Miscellaneous hazardous material storage.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.  
Usage Description  
Pourable sealant

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Ingredient Comments

No exposure limits noted for ingredient(s).

**8.2. Exposure controls**

Protective equipment



Process conditions

Provide eyewash station.

Engineering measures

Well-ventilated area.

Respiratory equipment

No specific recommendations.

Hand protection

Use protective gloves. 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 approved safety goggles.

Other Protection

Use barrier creams to prevent skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated.

Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance	Liquid
Colour	Misc. colours.
Odour	Slight odour.
Solubility	Insoluble in water
Initial boiling point and boiling range (°C)	Not applicable.
Melting point (°C)	Not applicable.
Relative density	1.0 @ 20°C
Vapour density (air=1)	Not applicable.
Vapour pressure	Not applicable.
Evaporation rate	Not applicable.
Evaporation Factor	Not applicable.
pH-Value, Conc. Solution	Not applicable.
Viscosity	< 300 poise @ 20°C
Decomposition temperature (°C)	Not determined.
Odour Threshold, Lower	Not determined.
Odour Threshold, Upper	Not determined.
Flash point (°C)	Not applicable.
Auto Ignition Temperature (°C)	Not applicable.
Flammability Limit - Lower(%)	Not applicable.
Flammability Limit - Upper(%)	Not applicable.
Partition Coefficient (N-Octanol/Water)	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

Not applicable.

## 9.2. Other information

Not known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerisation  
Will not polymerise.

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

Materials To Avoid  
Strong oxidising substances.

### 10.6. Hazardous decomposition products

None at ambient temperatures. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxic Dose 1 - LD 50	Methyl-0-0'-0"-butan-2-one-trioximosilane >1000 mg/kg (oral rat)
Toxic Conc. - LC 50	Methyl-0-0'-0"-butan-2-one-trioximosilane >50 mg/l/4h (inh-rat)

Toxicological information

Butanone-2-oxime (MEKO) is damaging to nasal membranes in rats and mice at a concentration in excess of 10ppm over a prolonged period of time.

#### Acute toxicity:

Based on available data the classification criteria are not met.

#### Skin Corrosion/Irritation:

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation:

The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.

#### Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

#### Carcinogenicity:

Does not contain any substances known to be carcinogenic.

#### Reproductive Toxicity:

Does not contain any substances known to be toxic to reproduction.

#### Specific target organ toxicity - single exposure:

Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

#### Aspiration hazard:

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Based on available data the classification criteria are not met.

## Inhalation

No specific health warnings noted.

## Ingestion

May cause discomfort if swallowed.

## Skin contact

May cause sensitisation by skin contact.

## Eye contact

May cause temporary eye irritation.

## Health Warnings

Product may cause an allergic reaction in hypersensitive persons. Moisture curing process releases a small amount of butanone-2-oxime (MEKO) which can irritate skin and mucous membranes. Prolonged exposure to large quantities of MEKO may cause irreversible damage to health.

## Route of entry

Skin and/or eye contact.

## Target Organs

Skin

## Medical Symptoms

Allergic rash.

## Medical Considerations

Skin disorders and allergies.

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## SECTION 12: ECOLOGICAL INFORMATION

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### Ecotoxicity

In cross-linked state not soluble in water. Easily separable from water by filtration.

### 12.1. Toxicity

There are no data for the product.

Acute Toxicity - Fish LC50 96 hours MEKO 48 mg/l *Lepomis macrochirus* (Bluegill)

Acute Toxicity - Aquatic Invertebrates EC50 48 hours MEKO 750 mg/l *Daphnia magna*

### 12.2. Persistence and degradability

#### Degradability

The product is not readily biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Partition coefficient Not applicable.

### 12.4. Mobility in soil

#### Mobility:

The product is insoluble in water.

### 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.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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# NU-GUARD AG COLOUR

## General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as hazardous waste.

Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority

### **13.1. Waste treatment methods**

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

Waste Class

Recommended EWC Code 08 04 09\*

H13 - Sensitising

## **SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

### **14.1. UN number**

No information required.

### **14.2. UN proper shipping name**

No information required.

### **14.3. Transport hazard class(es)**

No information required.

### **14.4. Packing group**

No information required.

### **14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

### **14.6. Special precautions for user**

No information required.

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

No information required.

## **SECTION 15: REGULATORY INFORMATION**

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

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.

### **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

## **SECTION 16: OTHER INFORMATION**

Revision Comments

Classification and labelling according to CLP Regulations.

Revision Date 29/01/14

Supersedes date 18/12/12

SDS No. 10408

## NU-GUARD AG COLOUR

### Risk Phrases In Full

R20	Harmful by inhalation.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Statements In Full

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

### 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