# SAFETY DATA SHEET

## 1 IDENTIFICATION OF THE PREPARATION AND COMPANY

**PRODUCT NAME AND/OR CODE:** **HNWU4200 Series**
**INTENDED USE:** **Pre-catalysed clear lacquers for use on timber**

**NAME & FULL ADDRESS:** **Arch Coatings UK Ltd**
**A1 Business Park**
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**West Yorkshire**
**WF11 0BU**
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## 2 COMPOSITION/INFORMATION OF INGREDIENTS

Substances presenting a health hazard within the meaning of the CHIP Regulations or assigned occupational exposure limits.

| Substance | Conc Range % | Symbol Letter | R Phrases (5) | Occupational Exposure Limits | | | | Notations (3) |
|---|---|---|---|---|---|---|---|---|
| | | | | 8 hr TWA (1) | | 15 min STEL (2) | | |
| | | | | ppm(4) | mg/m 3(4) | ppm (4) | mg/m 3(4) | |
| Toluene | 2.5-10 | F, Xn | 11, 20 | 50 OES | 191 OES | 150 OES | 574 OES | Sk |
| Xylene | 10-25 | Xn | 20/21, 38 | 50 OES | 220 OES | 100 OES | 441 OES | Sk |
| Propan-1-ol | 2.5-10 | F, Xi | 11,41,67 | 200 OES | 500 OES | 250 OES | 625 OES | Sk |
| Propan-2-ol | 2.5-10 | F, Xi | 11,36,67 | 400 OES | 999 OES | 500 OES | 1250 OES | |
| 4-Methyl Pentan-2-one | 2.5-10 | F, Xn | 11, 20, 36/37, 66 | 50 OES | 208 OES | 100 OES | 416 OES | Bmgv, Sk |
| Dibutyl Phthalate | 1-2.5 | - | - | - | 5 OES | - | 10 OES | |
| Butan-1-ol | 2.5-10 | Xn | 10, 22, 41 37/38, 67 | - | - | 50 OES | 154 OES | Sk |
| Ethanol | 2.5-10 | F | 11 | 1000 OES | 1920 OES | - | - | |
| Butyl Acetate | 2.5-10 | - | 10, 66, 67 | 150 OES | 724 OES | 200 OES | 966 OES | |

**Notes:**
(1) Long term exposure limit – 8 hour time weighted average.
(2) Short term exposure limit – 15 minute reference period.
(3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitiser.
(4) 'OES' indicates an Occupation Exposure Standard. 'MEL' indicates a Maximum Exposure Limit.
'OEL's' are taken from EH40, except those marked 'SUP', which are assigned by the supplier of the substance.
'Bmgv' indicates that biological monitoring may be appropriate. Biological Monitoring Guidance Values are listed in EH40.
(5) For full text see Section 15.

## 3 HAZARDS IDENTIFICATION

The product is classified as highly flammable and harmful according to the CHIP Regulations.

Harmful by inhalation and in contact with skin.
Highly flammable.
Irritating to eyes and respiratory system.

## 4 FIRST AID MEASURES

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

**Inhalation:**
Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recover position and seek medical advice.

**Eye Contact:**
Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart and seek medical advice.

**Skin Contact:**
Remove contaminated clothing. Wash skin thoroughly with soap and water or use 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:**

| | |
|---|---|
| RECOMMENDED: | Alcohol resistant foam, $CO_2$ powder, water spray/mist |
| NOT TO BE USED: | Water jet |

**Recommendations:**
Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

## 6 ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent and avoid the use of solvents.

If the product enters drains or sewers the local Water Company should be contacted immediately; in case of contamination of streams, rivers or lakes, the relevant environment agency.

## 7 HANDLING AND STORAGE

**Handling:**
Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

Additionally, the product should only be used in areas which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.
Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.
Smoking, eating and drinking should be prohibited in areas of storage and use.
For personal protection see Section 8.

Unless the container is specifically designed, never use pressure to empty. It is not a pressure vessel.
Always keep in containers made of the same material as the supply container.
Good housekeeping standards including the regular safe removal of waste materials and regular maintenance of spray booth filters will minimise risks of spontaneous combustion and other fire hazards.

The product may charge electrostatically. Use earthing leads when transferring from one container to another.
Operators should wear anti-static footwear and clothing and floors should be electrically conductive.
The Manual Handling Operations Regulations may apply to the handling of containers of the product. Refer to the guide weight indicated on the container when carrying out assessments.

**Storage:**
Store in accordance with the conditions of the license, which is necessary under the Petroleum (Consolidation) Act. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers. The storage and use of this product is subject to the requirements of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations. Up to 50 litres of such highly flammable liquids may be kept in a workroom provided they are kept in a fireproof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers.

Observe the label precautions. Store between 5 and 25ºC in a dry, well-ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers that are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE's guidance note Storage of Packaged Dangerous Substances should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:**
(see Section 2).

**Engineering Measures:**
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupation exposure limits, suitable respiratory protective equipment should be worn (see Personal Protection below).

**Personal Protection:**
All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

**Respiratory Protection:**
Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupation exposure limit and engineering controls and methods cannot reasonably be improved.

**Hand Protection:**
When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin, but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

**Eye Protection:**
Eye protection designed to protect against liquid splashes should be worn.

**Skin Protection:**
Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.
DO NOT USE SOLVENTS OR THINNERS AS SKIN CLEANING AGENTS.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| Physical state: | Liquid | | |
| Flash Point: | Below 21ºC | Method: | abel closed cup |
| Viscosity: | N/A | Method: | N/A |
| Specific Gravity: | <1 | Method: | weight of 100 ml at 20ºC |
| Vapour Density: | Heavier than air | | |
| Lower Explosion Limit: | Not determined | | |
| Solubility in Water: | Immiscible | | |

## 10 STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide and carbon dioxide and oxides of nitrogen may be produced.
Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
Keep dirty wipers in an enclosed container.

## 11 TOXICOLOGICAL INFORMATION

There is no data available on the product itself. Exposure to organic solvent vapours may result in adverse health effects, such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be as described for exposure to vapours.

## 12 ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters.

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product (see Section 9 for VOC level).

## 13 DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using the information provided in this safety data sheet, advice should be obtained from the relevant environment agency, whether the special waste regulations apply.

## 14 TRANSPORT INFORMATION

**Transport within the user's premises:**
Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

**Transport Details:**
CLASS 3 - PACKING GROUP II
Ensure drivers have adequate training.

## 15 REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the CHIP Regulations (except those marked *, for information only).
Contains: Toluene, Xylene, 4-methyl pentan-2-one.

| **R No** | **Phrase** |
|---|---|
| **R11** | **HIGHLY FLAMMABLE** |
| **R20/21** | **HARMFUL BY INHALATION AND IN CONTACT WITH SKIN** |
| **R36/37** | **IRRITATING TO EYES AND RESPIRATORY SYSTEM** |
| | |
| R10* | FLAMMABLE |
| R22* | HARMFUL IF SWALLOWED |
| R38* | IRRITATING TO SKIN |
| R41* | RISK OF SERIOUS DAMAGE TO EYES |
| R66* | REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING |
| R67* | VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS |

| **S No** | **Phrase** |
|---|---|
| **S16** | **KEEP AWAY FROM SOURCES OF IGNITION – NO SMOKING** |
| **S24** | **AVOID CONTACT WITH SKIN** |
| **S26** | **IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE** |
| **S60** | **THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE** |
| **S62** | **IF SWALLOWED, DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER AND LABEL** |

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

## 16 OTHER INFORMATION

The information contained in this safety data sheet is provided in accordance with the requirements of CHIP Regulations.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in the following:

The Control of Substances Hazardous to Health Regulations 1999 (SI 1999: 437)
(Control of Substances Hazardous to Health Regulations (NI) 1995)
The Petroleum (Consolidation) Act 1928
The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (SI 1972: 917)
The Manual Handling Operations Regulations 1992 (SI 1992: 2793)
Storage of Flammable Liquids in Containers, HS(G)51
Storage of Packaged Dangerous Substances, HS(G)71
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992: 2839)
EH40/## Occupational Exposure Limits, HSE Books
A Guide to Working with Solvents, INDG 272