



**GRANWAX**  
Products Limited

# MATERIAL SAFETY DATA SHEET

Product name: **2K PU Adhesive HARDENER**

Reviewed date: **April 2013**

Reviewed by **MC**

## 1. Identification of substance

Substance: **2kPU Adhesive HARDENER**  
Supplier: Granwax Products Limited  
West Street  
Riddings, Alfreton  
Derbyshire DE55 4EW  
Telephone: 01773 541177 Fax: 01773 541429  
This revision: April 2013

## 2. Composition/Data on components

*Composition and classification of potentially hazardous components.*

| <u>Component</u>  | <u>Concentration range</u> | <u>Classification</u> | <u>Risk Phrase</u>                    |
|---|----------------------------|-----------------------|---------------------------------------|
| Diphenylmethanediisocyanate,<br>Isomers and homologues<br>9016-87-9 | 2.5 -10%                   | Xn,Xi                 | R20-36/37/<br>R38-40-42<br>R 43-48/20 |
| Danger Health Hazard 3.4 r/1 3.2'2, 3.3/2, 3.4.S/1                  |                            |                       |                                       |

## 3. Hazards identification

Carc. Cat 3 Xn Harmful

Risk Phrases: R20 Harmful by inhalation  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R42/43 May cause sensitisation by inhalation and skin contact  
Contains isocyanates: see information provided by the manufacturer.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H319 May cause allergic skin reaction  
H335 May cause respiratory irritation  
Contains isocyanates may cause an allergic reaction.



**GRANWAX**  
Products Limited

# MATERIAL SAFETY DATA SHEET

Product name: 2K PU Adhesive HARDENER

Reviewed date: April 2013

## 4. First aid measures

**Skin exposure:** immediately wash the affected area with soap or mild detergent and water. Remove contaminated clothing. If symptoms persist seek medical advice. Prolonged or repeated contact may cause short term irritation, and could cause dermatitis.

**Eye splashes:** If the material is splashed into the eye, wash the affected eye with clean running water for at least 15 minutes. Seek medical advice.

**Swallowing (ingestion):** If material is accidentally swallowed, do not make patient vomit, seek medical advice. This information should be taken with the patient when seeking medical advice.

**Inhalation;** Move patient to fresh air. If patient is unconscious, place in the recovery position and seek medical help immediately. Do not give patient anything to drink.

CALL FOR MEDICAL ASSISTANCE IF YOU FEEL UNWELL

## 5. Fire fighting measures

Use dry powder, CO2 or foam.

This material is FLAMMABLE and will produce smoke containing hazardous combustion products.

## 6. Accidental release measures

Spillages should be contained with a non-combustible absorbent material and collected for disposal in accordance with the local regulations. Do not place in sealed containers.

Spillages should not be allowed to run to surface waters. PPE must be worn.

## 7. Handling & storage

Store in a cool, well ventilated area.

Keep container tightly sealed

All chemical preparations should be stored securely where they cannot be interfered with or used by unauthorised persons.



**GRANWAX**  
Products Limited

# MATERIAL SAFETY DATA SHEET

Product name: 2K PU Adhesive Hardener

Reviewed date: April 2013

## 8. Exposure controls & personal protection

9016-87-9 diphenylmethandiisocyanate, isomers and homologues

WEL Short term value 0.07 mg/m<sup>3</sup>  
Long term value 0.02 mg/m<sup>3</sup>  
Sen: as- NCO

Personal Protective Equipment

Use respiratory protection at all times. If exposure prolonged wear self contained respiratory protective device.

Use tightly sealed protective goggle.

Wear Butyl Hand protection.

Wear suitable overalls.

Hygiene:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work

Avoid contact with eyes and skin

Do not inhale gases/fumes/vapours

## 9. Physical and chemical properties

|                       |                |  |                               |
|-----------------------|----------------|--|-------------------------------|
| Appearance:           | Fluid          | Odour                                    | Characteristic                |
| pH:                   | Not Applicable | Boiling point / range:                   | 190 deg.C                     |
| Melting point / range | Undetermined   | Flash point:                             | Not applicable                |
| Flammability          | Non Flammable  | Autoflammability:                        | Not applicable                |
| Explosive properties  | Not applicable | Oxidising properties:                    | none                          |
| Vapour pressure       | 220 hPA        | Relative density:                        | Approx. 1.14g/cm <sup>3</sup> |
| Solubility            | not miscible   | Partition coefficient: n-octanol / water | Not determined                |
| Solvent Content       | 0%             | Solids Content                           | 59%                           |

## 10. Stability and reactivity

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Dangerous Reaction: No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known



**GRANWAX**  
Products Limited

# MATERIAL SAFETY DATA SHEET

Product name: 2K PU Adhesive Hardener

Reviewed date: April 2013

## 11. Toxicological information

Acute Toxicity:  
Irritant to skin and mucous membranes and to the eyes.  
Sensitization possible through inhalation and /or skin contact  
Harmful  
Irritant

## 12. Ecological information

Class WKG1 Slight water hazard.

## 13. Disposal considerations

This product is classified as Harmful/Flammable. Any surplus or waste arising from the normal use of this product must be disposed of in accordance with the local special waste regulations.

## 14. Transport information

Not classified as a hazard

## 15. Regulatory information

Code Letter and hazard designation: Xn Harmful

Risk Phrases: R36/37/38 Irritating to eyes, respiratory system, and eyes.  
R42/43 may cause sensitization by inhalation and skin contact

Safety Phrases: S23 Do not breathe vapours, S24 Avoid contact with skin, S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice, S37 wear suitable gloves, S45 In case of accident or if you feel unwell seek medical advice showing this container or label.  
S60 This material must be disposed of as hazardous waste.

## 16. Other information

No other safety information is applicable to the use of this preparation for its intended purpose