

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|-----------------|---------------------------------------|
| Product form | : Mixture |
| Trade name | : Alpha Chem Polyurethane 5 min 1000g |
| Product code | : X2PU5MIN1 |
| Type of product | : Builders |
| Product group | : Blend |

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

1.2.1. Relevant identified uses

| | |
|------------------------------|---|
| Main use category | : Professional use |
| Use of the substance/mixture | : Solvent free polyurethane wood bonding adhesive rapid cure rate |
| Use of the substance/mixture | : Adhesives, binding agents |
| Function or use category | : Adhesives, binding agents |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Cromar Building Products
Units 3, 4, 5 Northside Ind Park
Selby Rd
DN14 0GH Whitley Bridge - United Kingdom
T 01977 663133 - F 01977 662186
www.cromarbuildingproducts.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|---|------|
| Acute toxicity (inhalation:dust,mist) Category 4 | H332 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Respiratory sensitisation, Category 1B | H334 |
| Skin sensitisation, Category 1 | H317 |
| Carcinogenicity, Category 2 | H351 |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 |
| Specific target organ toxicity — Repeated exposure, Category 2 | H373 |
| Full text of H statements : see section 16 | |

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

GHS08

Signal word (CLP)

: Danger

Hazardous ingredients

: DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Hazard statements (CLP)

: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - Wear respiratory protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Hazard classification of this material is based on the worst possible case

| Name | Product identifier | % | Classification according to Directive 67/548/EEC | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------|---|---------|---|--|
| DIPHENYLMETHANE-4,4'-DI-ISOCYANATE | (CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index-No.) 615-005-00-9 | 30 - 60 | Carc.Cat.3; R40 Xn; R20 Xn; R48/20 Xi; R36/37/38 R42 R43 | Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 |
| 2,2'-dimorpholinyl-diethyl ether | | <= 2.5 | Not classified | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits: DSD/DPD | Specific concentration limits: CLP |
|------------------------------------|---|--|---|
| DIPHENYLMETHANE-4,4'-DI-ISOCYANATE | (CAS-No.) 101-68-8 (EC-No.) 202-966-0 (EC Index-No.) 615-005-00-9 | | (C >= 0.1) Resp. Sens. 1, H334 (C >= 5) Eye Irrit. 2, H319 (C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335 |

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Consult an ophthalmologist if irritation persists. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion : Do NOT induce vomiting. Call a physician immediately.

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : May cause irritation or asthma-like symptoms. May cause shortness of breath, tightness of the chest, a sore throat and cough. |
| Symptoms/effects after skin contact | : irritation (itching, redness, blistering). |
| Symptoms/effects after eye contact | : May cause severe irritation. redness, itching, tears. |
| Symptoms/effects after ingestion | : May cause irritation to the digestive tract. |
| Chronic symptoms | : May cause cancer. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Dry chemical, CO ₂ , or water spray or regular foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Precautionary measures fire | : Do not allow contact with water. This product is not to be used under conditions of poor ventilation. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Get the package away from the fire if this can be done without risk. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. |
| Other information | : High temperature decomposition products are harmful by inhalation. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Avoid contact with skin, eyes and clothing. Do not breathe vapours. |

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Use self-contained breathing apparatus and chemically protective clothing. |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean up any spills as soon as possible, using an absorbent material to collect it. This material and its container must be disposed of in a safe way, and as per local legislation. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. |

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Precautions for safe handling | : Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Ensure good ventilation of the work station. Handle and open container with care. Provide good ventilation in process area to prevent formation of vapour. Protect from moisture. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |
| Handling temperature | : 5 - 25 |
| Hygiene measures | : Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|--|
| Storage conditions | : Keep container closed when not in use. Keep only in original container. Protect from moisture. |
| Storage temperature | : 5 - 25 °C |
| Special rules on packaging | : Keep only in original container. Store in a closed container. |

7.3. Specific end use(s)

No additional information available

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Alpha Chem Polyurethane 5 min 1000g | | |
|-------------------------------------|-------------------------------|---|
| United Kingdom | Local name | Diphenylmethane-4,4'-Diisocyanate |
| United Kingdom | WEL TWA (mg/m ³) | 0.02 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 0.07 mg/m ³ |
| United Kingdom | Remark (WEL) | Phosphoric acid TWA 1 mg/m ³ |

Monitoring methods

| | |
|-------------------------------|---|
| Monitoring methods | Detector Tube,Passive sampler Gas chromatography method |
| Biological monitoring methods | Analysis of urine samples |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.

| Hand protection: | | | | | |
|-----------------------|--|------------------|----------------|-------------|----------|
| Nitrile rubber gloves | | | | | |
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR), Neoprene rubber (HNBR) | 2 (> 30 minutes) | 4 mm | | |

| Eye protection: |
|--|
| Chemical goggles or safety glasses. Wear closed safety glasses |

| Skin and body protection: |
|---|
| Chemical resistant safety shoes. Chemical resistant apron. Long sleeved protective clothing. Wear impervious rubber safety shoes. Wear suitable protective clothing |

| Respiratory protection: | | | |
|--|-----------------------|--|----------|
| In case of inadequate ventilation wear respiratory protection. Wear appropriate mask | | | |
| Device | Filter type | Condition | Standard |
| Self-contained breathing apparatus (SCBA) | Type P3, Filter A2/B2 | Moist condition, Long term exposure, Mist formation, Vapour protection | |

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Colour | : Various. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| pH solution | : 7 - 8 estimated |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : < 10 °C |
| Freezing point | : No data available |
| Boiling point | : 330 °C @mbar |

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|----------------------------------|--|
| Flash point | : > 200 °C closed cup |
| Auto-ignition temperature | : > 600 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : 0.01 Pa |
| Relative vapour density at 20 °C | : 1.12 |
| Relative density | : No data available |
| Density | : 8.5 |
| Solubility | : Water: insoluble |
| Log Pow | : 4.5 Based on Diphenylmethane-4,4'-diisocyanate |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : > 2000 cP @ 25 C |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use.

Hardening time : Hardens in contact with water

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Moisture. Water, humidity.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Harmful if inhaled. |

| Alpha Chem Polyurethane 5 min 1000g | |
|-------------------------------------|-------------|
| LD50 oral rat | 10000 mg/kg |
| LD50 dermal rat | 9400 mg/kg |
| LD50 dermal rabbit | 9400 mg/kg |
| ATE CLP (dust,mist) | 2.5 mg/l/4h |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause respiratory irritation. |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|---|
| Acute aquatic toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| Chronic aquatic toxicity | : Not classified |

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Alpha Chem Polyurethane 5 min 1000g | |
|-------------------------------------|---|
| LC50 fish 1 | > 1000 mg/l Diphenylmethane-4,4'Diisocyanate (marine water) |
| LC50 fish 2 | > 1000 mg/l Fresh water |
| EC50 Daphnia 1 | > 500 mg/l |
| EC50 Daphnia 2 | > 100 mg/l 2,2' Dimorpholinyl diethyl ether |
| EC50 other aquatic organisms 1 | > 1000 mg/l Bacteria (2,2'Dimorpholinyl diethyl ether) |
| EC50 72h algae (1) | ≈ 1640 mg/l Scenedesmus subspicatus |

12.2. Persistence and degradability

| Alpha Chem Polyurethane 5 min 1000g | |
|-------------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
| Biochemical oxygen demand (BOD) | < 10 g O ₂ /g substance Product not readily biodegradeable |

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (101-68-8)

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

| Alpha Chem Polyurethane 5 min 1000g | |
|-------------------------------------|--|
| Log Pow | 4.5 Based on Diphenylmethane-4,4'-diisocyanate |

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (101-68-8)

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-----------------------------------|--|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| European List of Waste (LoW) code | : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances |

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| | |
|-----------------|--|
| Data sources | : Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013. 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. |
| Training advice | : Normal use of this product shall imply use in accordance with the instructions on the packaging. |

| Full text of R-, H- and EUH-statements: | |
|---|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| R20 | Harmful by inhalation |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R40 | Limited evidence of a carcinogenic effect |
| R42 | May cause sensitization by inhalation |
| R43 | May cause sensitisation by skin contact |

Alpha Chem Polyurethane 5 min 1000g

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--------|--|
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation |
| Xi | Irritant |
| Xn | Harmful |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product