



SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product number and name **67004-H PRATLEY WONDAFIX AUTO HARDENER, bubble pack**
Product type Adhesive

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

Relevant identified uses Consumer use
Uses advised against No specific uses advised against.
Avoid skin and eye contact, inhalation of vapours or ingestion.

1.3 Details of Supplier of Safety Data Sheet

Manufactured by Pratley Polymers Manufacturing (Proprietary) Ltd
14 Jackson Street, Factoria, Krugersdorp, 1745
South Africa
Tel: +27-11-955-2190 Fax: +27-11-955-3918
www.pratleyadhesives.com

Supplied in South Africa by Pratley (Proprietary) Ltd
14 Jackson Street, Factoria, Krugersdorp, 1745
South Africa
Tel: +27-11-955-2190 Fax: +27-11-955-3918
sales@pratley.com
www.pratleyadhesives.com

Supplied outside South Africa by Pratley Exporting (Proprietary) Ltd
14 Jackson Street, Factoria, Krugersdorp, 1745
South Africa
Tel: +27-11-955-2190 Fax: +27-11-955-3918
exports@pratley.com
www.pratleyadhesives.com

1.4 Emergency Telephone Number

South Africa +27-11-955-2190 during office hours
10117 All emergencies
+27-21-689-5227 Poisons Information Centre
Europe 112 All emergencies

For detailed poison information, the national poison centre, if available, should be contacted.

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| United Kingdom | 999 All emergencies 111 (NHS, England, NHS 24, Scotland or NHS Direct, Wales), 0808 808 8000 (Lifeline, N. Ireland) 01 809 2166 (National Poison Information Centre, Republic of Ireland) |
| Australia | 000 All emergencies 13 11 26 NSW Poison Information Centre |
| New Zealand | 111 All emergencies 0800 764 766 National Poisons Centre (poisons@otago.ac.nz) |
| Americas | 911 All emergencies 1-800-222-1222 Poisons Help (PoisonHelp.org) |

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification

| Class | Category | Hazard Code and Statement | |
|----------------------------|----------|---------------------------|----------------------------------------------------|
| Acute Toxicity, oral | 4 | H302 | Harmful if swallowed. |
| Acute Toxicity, dermal | 4 | H312 | Harmful in contact with skin. |
| Skin Corrosion/Irritation | 1 | H314 | Causes severe skin burns and eye damage. |
| Eye Corrosion/Irritation | 1 | H318 | Causes serious eye damage. |
| Skin Sensitizer | 1 | H317 | May cause an allergic skin reaction. |
| Aquatic Toxicity - Chronic | 3 | H412 | Harmful to aquatic life with long lasting effects. |

2.1.2 Additional Information

EUH208 Contains DCCI and Polymercaptan. May produce an allergic reaction.

2.2 Label Elements

Hazard Pictogram(s),
Signal Word and
Ingredients



DANGER

DBU
Bis(4-amino-3-methylcyclohexyl)methane
DCCI
TDMA-Methylphenol

The technical name has been replaced on the label by a name / identification that is easier for a consumer to identify. See section 16 for a comparison of the technical and alternative names used.

Hazard Statements

H302 **Harmful if swallowed.**
H312 **Harmful in contact with skin.**
H314 **Causes severe skin burns and eye damage.**
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 **Harmful to aquatic life with long lasting effects.**

Obligatory
Statements

EUH208 **Contains DCCI and Polymercaptan. May produce an allergic reaction.**

| | | |
|--------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Precautionary Statements | P101 | If medical advice is needed, have product container or label at hand. |
| | P102 | Keep out of reach of children. |
| | P103 | Read label before use. |
| | P260 | Do not breathe dust/fumes/gas/mist/vapours/spray. |
| | P261 | Avoid breathing vapours. |
| | P264 | Wash hands thoroughly after handling. |
| | P270 | Do not eat drink or smoke when using this product. |
| | P272 | Contaminated work clothing should not be allowed out of the workplace. |
| | P273 | Avoid release to the environment. |
| | P280 | Wear protective gloves/eye protection. |
| | P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| | P330 | Rinse mouth. |
| | P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| | P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | 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. |
| | P310 | Immediately call a POISON CENTER/doctor. |
| | P312 | Call a POISON CENTRE/doctor/ ... if you feel unwell. |
| | P321 | Specific treatment (see..on this label) |
| | P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse. | |
| P362+P364 | Take off contaminated clothing and wash before reuse. | |
| P405 | Store locked up. | |
| P501 | Dispose of contents/container in accordance with local regulations. | |

Only the hazard statements and Precautionary statements in bold text have been included on the label in accordance with the allowed omissions set out in the ECHA Guidance on Labelling and Packaging.

2.3 Other Hazards

None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

| Hazardous Ingredients | % [weight] | CAS No. EC No. Index No. | SCL, M-Factors, ATE | Classification | H / EUH Code(s) |
|------------------------------------|------------|--------------------------------|---------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1,8-diazobicyclo[5.4.0]undec-7-ene | 0.5 – 1.5 | 6674-22-2 229-713-7 | | Acute Toxicity (oral) – 3 Skin Corrosion – 1B Eye Damage - 1 | H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. |

The information provided is correct to the best of our knowledge. The information is designed only as a guide and is not considered as a warranty. We do not accept any liability arising from the use of information provided herein.

| | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,2'-dimethyl-4,4'-methylenebis (cyclohexylamine) | 4 - 5 | 6864-37-5 229-962-1 612-110-00-1 | | Acute Toxicity (oral) – 4 Acute Toxicity (dermal) – 3 Acute Toxicity (inhalation) – 3 Skin Corrosion – 1A Aquatic Toxicity, chronic – 2 | H302 Harmful if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H411 Toxic to aquatic life with long lasting effects. |
| dicyclohexylcarbodiimide | 0.4 – 0.7 | 538-75-0 208-704-1 | | Acute Toxicity (oral) – 4 Acute Toxicity (dermal) – 3 Skin Corrosion – 1 Eye Damage – 1 | H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. |
| 2,4,6-tris(dimethylaminomethyl) phenol | 25 - 45 | 90-72-2 202-013-9 603-069-00-0 | | Acute Toxicity (oral) – 4 Skin Irritant – 2 Eye Irritant - 2 | H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether | 45 - 65 | 72244-98-5 615-735-8 | | Skin Sensitizer – 1 Aquatic toxicity, chronic – 3 | H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. |

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

SKIN Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

EYE Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

INHALATION Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

INGESTION Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

4.2 Most important symptoms and effects, both acute and delayed

| | |
|------------|-------------------------------------------------------------------------------------------------------------------------------|
| SKIN | Brief contact may cause skin irritation. Symptoms may include pain and local redness. May cause an allergic skin reaction. |
| EYE | Due to the viscous state of the material eye contact is unlikely during normal use. May cause irritation with corneal injury. |
| INHALATION | No relevant data found. At room temperature, exposure to vapour is minimal due to low volatility. |
| INGESTION | Swallowing may result in gastrointestinal irritation or ulceration. Swallowing may result in burns of the mouth and throat. |

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media

SUITABLE Water fog, foam, extinguishing powder, or carbon dioxide.

NOT SUITABLE Do not use water jet.

5.2 Special Hazards arising from the Substance or Mixture

HAZARDS FROM THE SUBSTANCE / MIXTURE Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS No specific data.

5.3 Advice for Firefighters

SPECIAL PRECAUTIONS FOR FIREFIGHTERS Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation.

6.1.1 For non-emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

SKIN General purpose non-permeable gloves and overalls.

FACE / EYES Safety goggles.

CLOTHING No special requirements. Wash clothing thoroughly if contaminated.

VENTILATION If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

6.1.2 For emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

SKIN General purpose non-permeable gloves and overalls.

FACE / EYES Safety goggles.

CLOTHING No special requirements. Wash clothing thoroughly if contaminated.

VENTILATION If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

6.2 Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, air). May be harmful to the environment if released in large quantities.

6.3 Method and material for containment and cleaning up

6.3.1 Containment procedure

Due to the viscous nature of the material, containment is not usually necessary. If released into water, immediate collection by a suitably sized scoop is needed.

6.3.2 Clean-up procedure

Small amounts should be cured by mixing the hardener and resin together and then disposed of in accordance with local regulations.

Large amounts would need to be incinerated in accordance with local regulations.

6.3.3 Additional Information

See SECTION 13 for disposal considerations.

6.4 Reference to other sections

See SECTION 13 for disposal considerations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for Safe handling

7.1.1 Recommendations for safe handling and storage

Do not eat, drink, or smoke where this material is stored. Avoid release to the environment. Keep in the original container and keep tightly closed when not in use. Empty containers retain product residue and may be hazardous. Do not reuse containers.

7.1.2 Advice on general occupational hygiene

Put on appropriate personal protective equipment (see SECTION 8). Do not eat, drink, or smoke when working with this material. Wash hands and face before eating, drinking, or smoking. Persons with a history of skin sensitization problems should not use this product. Do not get in eyes. Avoid skin contact as much as possible. Do not ingest. Avoid breathing vapours.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in the original container protected from sources of ignition or direct sunlight in a dry, cool (10-40°C) and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Incompatible Materials: Strong oxidizing agents and acids.

Packaging Material: Use original container.

7.3 Specific end use(s)

Not applicable.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control Parameters

The DNEL (Derived No-Effect Level) for humans by inhalation, ingestion and dermal routes of exposure and the PNEC (Predicted No-Effect Concentration) for environmental exposure given below are not intended to be directly used for setting workplace or general population exposure limits. Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health based-OEL for that chemical substance. Further, although DNELs (and PNEC's) are an indication of setting risk measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed government OELs.

DNEL

| Ingredient (CAS No,) | Route of exposure | | Exposure Limit | |
|------------------------------------------------------------------------|-------------------|--------------|----------------------------------------|---------------------------------------|
| | | | Workers | Consumers |
| 1,8-diazobicyclo[5.4.0] undec-7-ene (6674-22-2) | Oral | ST, local | Not applicable | No data available |
| | | ST, systemic | Not applicable | No hazard identified |
| | | LT, local | Not applicable | No data available |
| | | LT, systemic | Not applicable | 1,5 mg/kg bw/day (repeated dose) |
| | Dermal | ST, local | Medium hazard | Medium hazard (no threshold derived) |
| | | ST, systemic | No hazard identified | No hazard identified |
| | | LT, local | Medium hazard | Medium hazard (no threshold derived) |
| | | LT, systemic | 3 mg/kg bw/day (repeated dose) | 1,5 mg/kg bw/day (repeated dose) |
| | Inhalation | ST, local | Medium hazard (no threshold derived) | Medium hazard (no threshold derived) |
| | | ST, systemic | Medium hazard (no threshold derived) | Medium hazard (no threshold derived) |
| | | LT, local | Medium hazard (no threshold derived) | Medium hazard (no threshold derived) |
| | | LT, systemic | 10.6 mg/m ³ (repeated dose) | 2.6 mg/m ³ (repeated dose) |
| 2,2'-dimethyl- 4,4'methylenebis (cyclohexylamine) (6864-37-5) | Oral | ST, local | No applicable | No data available |
| | | ST, systemic | Not applicable | Hazard unknown |
| | | LT, local | Not applicable | No data available |
| | | LT, systemic | Not applicable | 8 µg/kg bw/day (repeated dose) |
| | Dermal | ST, local | Medium hazard | Hazard unknown |
| | | ST, systemic | Medium hazard | Hazard unknown |
| | | LT, local | Medium hazard | Hazard unknown |
| | | LT, systemic | 50 µg/kg bw/day | Hazard unknown |
| | Inhalation | ST, local | Medium hazard | Hazard unknown |
| | | ST, systemic | High hazard | Hazard unknown |
| | | LT, local | 1 mg/m ³ | Hazard unknown |
| | | LT, systemic | 600 µg/m ³ (repeated dose) | Hazard unknown |

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| | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|---------------------------------------|-------------------------------------------------|
| Dicyclohexylcarbodiimide (538-75-0) | Oral | ST, local | Not applicable | No data available |
| | | ST, systemic | Not applicable | No hazard identified |
| | | LT, local | Not applicable | No data available |
| | | LT, systemic | Not applicable | 17 µg/kg bw/day ³ (repeated dose) |
| | Dermal | ST, local | High hazard | High hazard |
| | | ST, systemic | Hazard unknown | Medium hazard |
| | | LT, local | High hazard | High hazard |
| | | LT, systemic | 34.28 µg/kg bw/day (carcinogen) | 17 µg/kg bw/day ³ (repeated dose) |
| | Inhalation | ST, local | Hazard unknown | Hazard unknown |
| | | ST, systemic | Hazard unknown | Hazard unknown |
| | | LT, local | Hazard unknown | Hazard unknown |
| | | LT, systemic | 211.6 µg/m ³ (carcinogen) | 52.17 µg/m ³ (carcinogen) |
| 2,4,6- tris(dimethylaminomethyl) phenol (90-72-2) | Oral | ST, local | Not applicable | No data available |
| | | ST, systemic | Not applicable | No hazard identified |
| | | LT, local | Not applicable | No data available |
| | | LT, systemic | Not applicable | 75 µg/kg bw/day (repeated dose) |
| | Dermal | ST, local | Medium hazard | Medium hazard |
| | | ST, systemic | 600 µg/kg bw/day (repeated dose) | 75 µg/kg bw/day (repeated dose) |
| | | LT, local | Medium hazard | Medium hazard |
| | | LT, systemic | 150 µg/kg bw/day (repeated dose) | 75 µg/kg bw/day (repeated dose) |
| | Inhalation | ST, local | Medium hazard | Medium hazard |
| | | ST, systemic | 2.1 mg/m ³ (repeated dose) | 130 µg/m ³ (repeated dose) |
| | | LT, local | Medium hazard | Medium hazard |
| | | LT, systemic | 530 µg/m ³ (repeated dose) | 130 µg/m ³ (repeated dose) |
| Poly[oxy(methyl-1,2- ethanediyl)], .alpha.-hydro- .omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3- propanediol (4:1), 2-hydroxy- 3-mercaptopropylether (72244-98-5) <i>Information for a similar material</i> | Oral | ST, local | Not applicable | No data available |
| | | ST, systemic | Not applicable | No data available |
| | | LT, local | Not applicable | No data available |
| | | LT, systemic | Not applicable | 1.9 mg/kg bw/day (repeated dose) |
| | Dermal | ST, local | No data available | No data available |
| | | ST, systemic | No data available | No data available |
| | | LT, local | No data available | No data available |
| | | LT, systemic | DNEL: 2.7 mg/kg bw/day | DNEL: 1.61 mg/kg bw/day |
| | Inhalation | ST, local | No data available | No data available |
| | | ST, systemic | No data available | No data available |

| | | | |
|--|--------------|----------------------------------------------|-------------------------------------------|
| | LT, local | No data available | No data available |
| | LT, systemic | DNEL: 22mg/m ³ (repeated dose) | 6.52 mg/m ³ (repeated dose) |

PNEC

| Fresh water | Freshwater sediments | Marine water | Marine water sediments | Food chain | Sewage treatment | Soil (agricultural) | Air | Intermittent releases |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|-------------------------|-----------------------------------|------------------|---------------------|----------------------|-----------------------|
| 1,8-diazobicyclo[5.4.0]undec-7-ene (6674-22-2) | | | | | | | | |
| 240 µg/L | 1.46 mg/kg dw | 24 µg/L | 146 µg/kg dw | no potential for bio-accumulation | 13 mg/L | 152 µg/kg dw | no hazard identified | 500 µg/L |
| 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) (6864-37-5) | | | | | | | | |
| 100 µg/L | 4.34 mg/kg sediment dw | 10 µg/L | 434 µg/kg sediment dw | 556 µg/kg food | 1,6 mg/L | 4.56 mg/kg soil dw | no hazard identified | 46 µg/L |
| Dicyclohexylcarbodiimide (538-75-0) | | | | | | | | |
| 170 ng/L | 143.62 µg/kg sediment dw | 17 ng/L | 14.36 µg/kg sediment dw | 3.33 mg/kg food | 100 µg/L | 6.96 µg/kg soil dw | No hazard identified | 1.7 µg/L |
| 2,4,6-tris(dimethylaminomethyl) phenol (90-72-2) | | | | | | | | |
| 46µg/L | 262.1µg/kg dw | 4.6µg/L | 26.211µg/kg dw | no potential for bio-accumulation | 200µg/L | 25,4 µg/kg dw | no hazard identified | 460µg/L |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) <i>Information for a similar material</i> | | | | | | | | |
| 70 µg/L | 322 µg/kg dw | 7 µg/L | 32 µg/kg dw | no potential for bio-accumulation | 10 mg/L | 23 µg/kg dw | no hazard identified | 120 µg/L |

8.2 Exposure Controls**8.2.1 Appropriate engineering controls**

None required. Use in a well-ventilated area. If ventilation is poor use a self-contained breathing apparatus.

8.2.2 Personal Protection

Skin General purpose non-permeable gloves and overalls.

Face / Eye Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.

Inhalation This is unlikely due to the nature of the material. Use outdoors or in a well-ventilated area.

Ingestion Do not eat, drink, or smoke while working with this product. Wash hands thoroughly with soap and water after using this product. Keep away from children.

Thermal None required when used as instructed.

Other Always wash hands with soap and water after use.

8.2.3 Environmental Protection

Avoid release to the environment. Contain and dispose of in accordance with local regulations.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**9.1 information on physical and chemical properties**

Physical State Liquid

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| | |
|-------------------------------------------|------------------------------------------------|
| Colour | Black |
| Odour | Like ammonia |
| Melting point / Freezing point (°C) | No data available. |
| Boiling point, initial and range (°C) | No data available. |
| Flammability | Not flammable. |
| Explosion / Flammability limits | No data available. |
| Flash point (°C), closed cup | No data available. |
| Auto-ignition temperature (°C) | No data available. |
| Decomposition temperature (°C) | No data available. |
| pH | No data available. |
| Kinematic Viscosity (at 23°C) | 63000 mPa.s |
| Solubility | No data available. Partially soluble in water. |
| Partition co-efficient: n-octanol / water | No data available. |
| Vapour pressure | No data available. |
| Density and/or Relative density (at 23°C) | 1.1 g/cm ³ |
| Relative Vapour density | No data available. |
| Particle characteristics | No data available. |

9.2 Other information

9.2.1 Information with regards to physical Hazard Classes

No additional information available.

9.2.2 Other Safety Characteristics

No additional information available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Reacts with strong oxidising agents and acids.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Hazardous reactions may occur under certain conditions of storage or use.

10.4 Conditions to Avoid

Exposure to elevated temperatures can cause material to decompose. Reaction with carbon dioxide may form an amine carbamate. Product absorbs carbon dioxide from the air.

10.5 Incompatible Materials

Strong oxidizing agents, acids, acrylates, alcohols, aldehydes, halogenated hydrocarbons, ketones, nitriles and metals such as brass, bronze, copper and copper alloys.

10.6 Hazardous Decomposition Products

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

SECTION 11 – TOXOLOGICAL INFORMATION**11.1 Information on Hazard Classes**

| Ingredient (CAS No.) | Toxicological effect | Findings |
|-------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------|
| 1,8-diazobicyclo[5.4.0] undec-7-ene (6674-22-2) | Acute Toxicity - oral | LD ₅₀ , rat: 215 mg/kg bw |
| | Acute Toxicity - dermal | No data available |
| | Acute Toxicity - inhalation | No data available |
| | Skin Corrosion/ Irritation | Corrosive |
| | Serious Eye Damage/ Irritation | Irreversible damage |
| | Skin Sensitizer | No data available |
| | Respiratory Sensitizer | No data available |
| | Germ Cell Mutagenicity | No data available |
| | Carcinogenicity | No data available |
| | Reproductive Toxicity | No data available |
| | Developmental / Teratogenic Toxicity | No data available |
| | STOT - Single Exposure | No data available |
| | STOT - Repeated Exposure | NOAEL, subchronic, oral, systemic, rat: 20 mg/kg bw/day |
| Aspiration Hazard | No data available | |
| 2,2'-dimethyl- 4,4'-methylenebis (cyclohexylamine) (6864-37-5) | Acute Toxicity - oral | LD ₅₀ (rat): 320 mg/kg bw |
| | Acute Toxicity - dermal | LD ₅₀ (rabbit): 320 mg/kg bw |
| | Acute Toxicity - inhalation | LC ₅₀ (rat): 420 mg/m ³ /4H |
| | Skin Corrosion/ Irritation | Corrosive |
| | Serious Eye Damage/ Irritation | Irreversible damage |
| | Skin Sensitizer | No adverse effects observed |
| | Respiratory Sensitizer | No data available |

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| | | |
|------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| | Germ Cell Mutagenicity | InVitro - No adverse effects observed |
| | Carcinogenicity | No data available |
| | Reproductive Toxicity | NOAEL (subchronic, rat): 1.5 mg/kg bw/day |
| | Developmental / Teratogenic Toxicity | NOEL (subchronic, rabbit):9 mg/kg bw/day |
| | STOT - Single Exposure | No data available |
| | STOT - Repeated Exposure | NOAEL, oral (subchronic) 1.5 mg/kg bw/day (systemic effects) NOAEC, inhalation (subchronic) 12 mg/m ³ (local and systemic effects) |
| | Aspiration Hazard | No data available |
| Dicyclohexylcarbodiimide (538-75-0) | Acute Toxicity - oral | LD ₅₀ Oral (rat): 1100 mg/kg bw/day |
| | Acute Toxicity - dermal | No data available |
| | Acute Toxicity - inhalation | LC ₅₀ (rat) 159mg/L/4H |
| | Skin Corrosion/ Irritation | No adverse effects observed |
| | Serious Eye Damage/ Irritation | Irreversible damage |
| | Skin Sensitizer | Adverse effects observed |
| | Respiratory Sensitizer | No data available |
| | Germ Cell Mutagenicity | InVitro & InVivo - no adverse effects observed |
| | Carcinogenicity | No data available |
| | Reproductive Toxicity | NOEL (rat, subacute, oral): 40mg/kg bw/day |
| | Developmental / Teratogenic Toxicity | No data available |
| | STOT - Single Exposure | No data available |
| | STOT - Repeated Exposure | NOAEL, oral (rat, subacute): 100 mg/kg bw/day NOAEL, dermal (rabbit, subchronic): 3 mg/kg bw/day |
| | Aspiration Hazard | No data available |
| 2,4,6-tris(dimethylamino methyl) phenol (90-72-2) | Acute Toxicity - oral | LD ₅₀ Oral (rat): 2169 mg/kg bw/day |
| | Acute Toxicity - dermal | No data available |
| | Acute Toxicity - inhalation | No data available |
| | Skin Corrosion/ Irritation | Corrosive |
| | Serious Eye Damage/ Irritation | Irreversible damage |

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| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|
| | Skin Sensitizer | No adverse effects observed |
| | Respiratory Sensitizer | No data available |
| | Germ Cell Mutagenicity | InVitro - No adverse effects observed |
| | Carcinogenicity | No data available |
| | Reproductive Toxicity | NOAEL (rat, subchronic): 150 mg/kg bw/day |
| | Developmental / Teratogenic Toxicity | No data available |
| | STOT - Single Exposure | No data available |
| | STOT - Repeated Exposure | NOAEL (rt, subchronic): 15 mg/kg bw/day |
| | Aspiration Hazard | No data available |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) | Acute Toxicity - oral | LD ₅₀ 2600 mg/kg bw/day as per OECD 401, rat. |
| | Acute Toxicity - dermal | LD ₅₀ >10200 mg/kg bw/day as per OECD 402, rabbit. |
| | Acute Toxicity - inhalation | LC ₅₀ (rat) >0,1mg/L air. |
| | Skin Corrosion/ Irritation | Not irritating as per OECD 404, rabbit. |
| | Serious Eye Damage/ Irritation | Not irritating as per OECD 405, rabbit. |
| | Skin Sensitizer | >3 LLNA, EC3 = 29% as per OECD 429, mouse |
| | Respiratory Sensitizer | Not sensitizing. |
| | Germ Cell Mutagenicity | Negative as per OECD 471 (Ames), OECD 473 (Chromosome aberration), and OECD 476 (Micronucleus). |
| | Carcinogenicity | Not classifiable. |
| | Reproductive Toxicity | Not expected to cause reproductive or developmental effects. |
| | Developmental / Teratogenic Toxicity | No data available. |
| | STOT - Single Exposure | No data available. |
| | STOT - Repeated Exposure | No data available. |
| | Aspiration Hazard | No data available. |

11.2 Information on Other Hazards

11.2.1 Endocrine Disrupting Properties

None of the ingredients in this product are listed as an endocrine disruptor on EDL List I (identified), List II (under evaluation for), or List III (has ED properties).

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11.2.2 Other Information

No additional information available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Classified as Aquatic Toxicity – Chronic category 3 based on >25% 10 × Category 2 ingredients.

Please see Section 8.1 for PNECs on individual ingredients.

12.2 Persistence and Biodegradability

No data available for the mixture.

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1,8-diazobicyclo[5.4.0] undec-7-ene (6674-22-2) | Under test conditions no biodegradation observed (100%) |
| 2,2'-dimethyl-4,4'-methylenebis (cyclohexylamine) (6864-37-5) | Not biodegradable (100%) (freshwater) |
| Dicyclohexylcarbodiimide (538-75-0) | Under test conditions no biodegradation observed |
| 2,4,6-tris(dimethylaminomethyl) phenol (90-72-2) | Not biodegradable (100%) (freshwater) |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) | Under test conditions no biodegradation observed |
| Information for a similar material | |

12.3 Bioaccumulative Potential

No data available for the mixture.

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1,8-diazobicyclo[5.4.0] undec-7-ene (6674-22-2) | No data available. |
| 2,2'-dimethyl-4,4'-methylenebis (cyclohexylamine) (6864-37-5) | Does not significantly accumulate in organisms. BCF (aquatic species) 2.2 L/kg ww |
| Dicyclohexylcarbodiimide (538-75-0) | BCF (aquatic species) 2.2 L/kg ww |
| 2,4,6-tris(dimethylaminomethyl) phenol (90-72-2) | No data available. |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether (72244-98-5) | BCF (aquatic species): 3.16 L/kg ww |
| Information for a similar material | |

12.4 Mobility in Soil

Not mobile in soil.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out

12.6 Endocrine Disrupting Properties

This substance does not have endocrine disrupting properties with respect to human or non-target organisms as it does not meet the criteria set out in Section A or B of Regulation (EU) No 2017/2100.

12.7 Other Adverse Effects

None known.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material (uncured) and its container must be disposed of in a safe way.

Small amounts (during personal use) React the resin and hardener portions together and once cured, dispose of in accordance with local regulations.

Large amounts Contain and dispose of in accordance with local regulations. Mixing large amounts of resin and hardener together creates an exothermic reaction and care should be taken to avoid uncontrolled heating and possible fire.

EWC 20 01 27 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins containing dangerous substances

EWC (cured) 20 01 28 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins other than those mentioned in 20 01 27

SECTION 14 – TRANSPORT INFORMATION

| | 14.1 UN Number | 14.2 UN Proper Shipping Name | 14.3 Transport Hazard Class | 14.4 Packing Group |
|-----------|-----------------------|--------------------------------------------------------------------------------------------|------------------------------------|---------------------------|
| ADR | UN2735 | AMINES, LIQUID, CORROSIVE, N.O.S. contains 2,2'-dimethyl 4,4'methylenebis(cyclohexylamine) | 8 | II |
| RID | UN2735 | AMINES, LIQUID, CORROSIVE, N.O.S. contains 2,2'-dimethyl-4,4'methylenebis(cyclohexylamine) | 8 | II |
| ADN | UN2735 | AMINES, LIQUID, CORROSIVE, N.O.S. contains 2,2'-dimethyl-4,4'methylenebis(cyclohexylamine) | 8 | II |
| IMO/IMDG | UN2735 | AMINES, LIQUID, CORROSIVE, N.O.S. contains 2,2'-dimethyl-4,4'methylenebis(cyclohexylamine) | 8 | II |
| ICAO/IATA | UN2735 | AMINES, LIQUID, CORROSIVE, N.O.S. contains 2,2'-dimethyl-4,4'methylenebis(cyclohexylamine) | 8 | II |

14.5 Environmental Hazards

Not classified as hazardous for transport.

14.6 Special Precautions for User

None known.

14.7 Maritime Transport in Bulk According to IMO instruments

Not applicable as never transported in bulk.

SECTION 15 – REGULATORY INFORMATION

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

REACH EC1907/2006 Annex XIII, XIV, XVII The substance(s) in this product are not listed / not subject to restrictions.

International Agency for Research on Cancer (IARC) The substance(s) in this product are not listed / not subject to restrictions.

Australia Inventory of Industrial Chemicals (AIIC) The substance(s) in this product are listed.

New Zealand Inventory (NZIoC) The substance(s) in this product are listed.

Canada Domestic Substances List (DSL) / Non-Domestic Substance List (NDSL) The substance(s) in this product are listed.

United States Inventory (TSCA 8b)

California Proposition 65 The substance(s) in this product are not listed / not subject to restrictions.

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act (CAA) The substance(s) in this product are not listed / not subject to restrictions.

15.2 Chemical Safety Assessment

Not yet done.

SECTION 16 – OTHER INFORMATION

Alternative names used on consumer packaging:

| CAS No. | Ingredient Name (IUPAC) | Name used on Consumer Packaging |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 6674-22-2 | 1,8-diazobicyclo[5.4.0]undec-7-ene | DBU |
| 6864-37-5 | 2,2'-dimethyl-4,4'methylenebis(cyclohexylamine | Bis(4-amino-3-methylcyclohexyl)methane |
| 538-75-0 | dicyclohexylcarbodiimide | DCCI |
| 90-72-2 | 2,4,6-tris(dimethylaminomethyl) phenol | TDMA-Methylphenol |
| 72244-98-5 | Poly[oxy(methyl-1,2-ethanediy)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropylether | Polymercaptan |

Changes from previous version:

| Date changed | Section | Changes |
|--------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 2024.09.23 | 1.1 | Removed 97004 as packaging type no longer sold |
| | 8.1, 9.1, 12.2, 12.3 | More information on ingredients |
| | 11.2.1 | 2,2'-dimethyl-4,4'methylenebis(cyclohexylamine has been evaluated and found to not be an endocrine disruptor |
| 2022.09.30 | 14 | UN hazard classification does not include category 3 for environmental hazards. Should be UN 2735 and not UN1760. |
| 2022.04.08 | 1, 2, 3, 9, 11, 12, 14 | Major changes to comply with updated Regulation (EU) 2020/878 as well as formulation changes. Separate SDS for Resin and Hardener. |
| 2021.03.18 | 2, 3, 8, 11 | Re-evaluated hazard after additional training. |

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- 2, 3, 11 Separated hardener and resin classification. (The label on the pack will combine the information for both parts)
- 1 Confirmed emergency contact details.
- 15 Confirmed regulatory information and added information for several regulations.
- 16 Added list of abbreviations used.

Abbreviations used:

| | |
|------------------|-------------------------------------------------------------------------------------------------|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| CAS No. | Chemical Abstract Services Number |
| DNEL | Derived no-effect level |
| EC3 | Effective concentration required to produce a three-fold increase in the stimulation index |
| EC No. | European Community Number |
| ECHA | European Chemicals Agency |
| EWC | European Waste Code |
| GCL | Generic concentration limit |
| GLP | Good Laboratory Practice |
| HSNO | Hazardous Substances and New Organisms Act |
| IATA | International Air Transport Association |
| IBC | International Bulk Container |
| ICAO | International Civil Aviation Authority |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| LD50 | Lethal dose to 50% of test population |
| LLNA | Local lymph node assay |
| LT | Long term |
| mg/kg bw | milligrams per kilogram of body weight |
| mg/kg dwt | milligrams per kilogram dry weight |
| NOAEL | No observed adverse effect level |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| RID | European Agreements Concerning the International Carriage of Dangerous Goods by Rail |
| SCBA | Self contained breathing apparatus |
| SCL | Specific Concentration Limit |
| ST | Short term |
| STOT-SE | Specific target Organ Toxicity - Single Exposure |
| UN | United Nations |
| vPvB | very Persistent and very Bioaccumulative |

