

Page 1/9

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.11.2019

Revision: 13.11.2019

| For professional use only | |
|--|---|
| 1.1 Product identifier For professional use only | |
| | |
| Trade name: <u>Hardener 9029 (Zip)</u> | |
| Article number: 9029 1.2 Relevant identified uses of the substance or mixture and uses advis Application of the substance / the mixture Surface Coating Surface Coating Specialist Curing Agent Uses advised against Product is not intended, labelled or packaged for c | |
| 1.3 Details of the supplier of the safety data sheet | |
| Supplier: HMG PAINTS LIMITED RIVERSIDE WORKS, COLLYHURST ROAD, MANCHESTER. M40 7RU UNITED KINGDOM TEL: +44 (0)161 205 7631 EMAIL: sales@hmgpaint.com | |
| Further information obtainable from: sales@hmgpaint.com | |
| 1.4 Emergency telephone number: +44 (0)161 205 7631 (Business hou | urs) |
| | |
| | |
| SECTION 2: Hazards identification | |
| ř. | |
| 2.1 Classification of the substance or mixture | |
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Printing date 13.11.2019

Revision: 13.11.2019

Trade name: Hardener 9029 (Zip)

| | (Contd. of page 1) |
|---------------------|--|
| 3-isocyanate | omethyl-3,5,5-trimethylcyclohexyl isocyanate |
| Hazard stat | ements |
| H226 Flam | nable liquid and vapour. |
| H332 Harm | ful if inhaled. |
| H315 Cause | es skin irritation. |
| H319 Cause | es serious eye irritation. |
| | ause an allergic skin reaction. |
| | rause respiratory irritation. |
| • | ause damage to organs through prolonged or repeated exposure. |
| • | iry statements |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P303+P361 | +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P305+P351 | +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| 2.3 Other he | azards |
| Results of P | BT and vPvB assessment |
| | |

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

| · Dangerous components: | | |
|---|--|--------------------|
| CAS: 53880-05-0 | Oligomers of isophorone diisocyanate | >50- <i>≤</i> 100% |
| NLP: 500-125-5 | ♦ Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 1330-20-7 | Xylene (mix) | >10-≤25% |
| EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx | ♦ Flam. Liq. 3, H226; ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ↑ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |
| CAS: 108-65-6 EINECS: 203-603-9 | 2-methoxy-1-methylethyl acetate | >10- <u>≤</u> 25% |
| Reg.nr.: 01-2119475791-29 | | |
| CAS: 4098-71-9 | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | <i>≤l</i> % |
| EINECS: 223-861-6 | ♦ Acute Tox. 1, H330; ♦ Resp. Sens. 1, H334; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | |

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

\cdot 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

Printing date 13.11.2019

Revision: 13.11.2019

(Contd. of page 2)

Trade name: Hardener 9029 (Zip)

Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water.

- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing:
- Do not induce vomiting; call for medical help immediately and show safety datasheet or label.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- \cdot 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Keep receptacles tightly sealed. Ensure good ventilation/extraction at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.

(Contd. on page 4)

GB

Printing date 13.11.2019

Revision: 13.11.2019

(Contd. of page 3)

Trade name: Hardener 9029 (Zip)

- Further information about storage conditions: Keep receptacle tightly sealed and in a well-ventilated place. Keep away from heat.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

| · 8.1 Contr | ol paran | neters | |
|-------------------------------------|---|---|--|
| · Ingredier | ıts with l | imit values that require monitoring at the workplace: | |
| 1330-20- | • | | |
| Loi | EL Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV | | |
| 108-65-6 | 55-6 2-methoxy-1-methylethyl acetate | | |
| | EL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk | | |
| 4098-71- | 9 3-isocy | anatomethyl-3,5,5-trimethylcyclohexyl isocyanate | |
| Loi Ser | | value: 0.07 mg/m³ value: 0.02 mg/m³ O | |
| · DNELs | | | |
| | | mers of isophorone diisocyanate | |
| | | $0.29 mg/m^3$ (Ind) | |
| 108-65-6 | | xy-1-methylethyl acetate | |
| Oral | | 1.67 mg/day (Con) | |
| Dermal | DNEL | 54.8 mg/day (Con) | |
| | | 153.5 mg/day (Ind) | |
| Inhalativ | e DNEL | <i>33 mg/m³ (Con)</i> | |
| | | 275 mg/m ³ (Ind) | |
| 1330-20- | 7 Xylene | (mix) | |
| Dermal | DNEL | 108 mg/day (Con) | |
| | | 180 mg/day (Ind) | |
| Inhalativ | e DNEL | 14.8 mg/m ³ (Con) | |
| | | 77 mg/m ³ (Ind) | |
| - Fresh w - Marine - Intermit | ater; 0.3 water; 0. tent relea | | |
| - Sedimer - Soil; 2.3 | ut (Fresh ut (Marin 31 mg/kg | water); 12.46 mg/kg newater); 12.46 mg/kg | |
| - | | biological limit values: | |
| 1330-20- | - | | |
| | | /mol creatinine | |
| | ledium: | urine time: post shift | |
| | 1 0 | ime: post sniji r: methyl hippuric acid | |
| - | | (Contd. on page 5) | |
| | | | |

Printing date 13.11.2019

· Flash point:

Revision: 13.11.2019

Trade name: Hardener 9029 (Zip)

| 4098-71-9 3-isocyanatomethy | yl-3,5,5-trimethylcyclohexyl isocyanate (Contd. of page |
|---------------------------------|--|
| BMGV 1 µmol creatinine/mo | |
| Medium: urine | |
| Sampling time: At the | e end of the period od exposure |
| Parameter: isocyanat | |
| Additional information: The | lists valid during the making were used as basis. |
| 8.2 Exposure controls | |
| Personal protective equipmen | |
| General protective and hygie | |
| Keep away from foodstuffs, be | |
| Immediately remove all soiled | 8 |
| Wash hands before breaks and | |
| Store protective clothing sepa | |
| Avoid contact with the eyes ar | |
| | a spraying the product, use a respiratory protective device. |
| Protection of hands: | |
| | rur, advice should be sought from the glove supplier on appropriate types ar |
| usage times for this product. | |
| μ. | |
| Protective gloves | |
| | |
| | |
| Material of gloves | |
| | gloves does not only depend on the material, but also on further marks of quali |
| | er to manufacturer. As the product is a preparation of several substances, the |
| | al can not be calculated in advance and has therefore to be checked prior to the |
| application. | · • • |
| Penetration time of glove ma | |
| 0 | e has to be found out by the manufacturer of the protective gloves and has to b |
| observed. | |
| Eye protection: | |
| | |
| Tightly sealed gog | gles |
| | |
| | |
| | |
| SECTION 9: Physical a | nd chemical properties |
| 9.1 Information on basic phy | sical and chemical properties |
| | I I |
| General Information | |
| | |
| | Liquid |
| Appearance: | Liquid Clear |
| | |
| Appearance: Form: Colour: | Clear |

· Change in condition *Melting point/freezing point:* Undetermined. Initial boiling point and boiling range: 140 °C $40 \ ^{\circ}C$ · Flammability (solid, gas): Not applicable. (Contd. on page 6)

GB

Printing date 13.11.2019

Revision: 13.11.2019

Trade name: Hardener 9029 (Zip)

| | (Contd. of page 5 |
|---|---|
| · Ignition temperature: | 315 °C |
| · Decomposition temperature: | Not determined. |
| • Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product is not explosive. However, formation of explosive air vapour mixtures are possible. |
| Explosion limits: | |
| Lower: | 1.1 Vol % |
| Upper: | 10.8 Vol % |
| Vapour pressure at 20 °C: | 6.7-8.2 hPa |
| Density at 20 °C: | 1.08 g/cm ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with | |
| water: | NOT MISCIBLE |
| Partition coefficient: n-octanol/water: | Not determined. |
| Viscosity: | |
| Dynamic at 20 °C: | 200 mPas |
| Kinematic: | Not determined. |
| Solvent content: | |
| Organic solvents: | 29.7 % |
| Solids content: | 70.0 % |
| 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

No dangerous decomposition products when stored and handled correctly

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Harmful if inhaled.

· LD/LC50 values relevant for classification:

53880-05-0 Oligomers of isophorone diisocyanate

| 108-65- | 6 2-methoxy | -1-methylethyl acetate |
|---------|-------------|------------------------|
| Oral | LD50 | >14,000 mg/kg (Rat) |

| Oral | LD50 | >5,000 mg/kg (rat) |
|------------|----------|--------------------|
| Dermal | LD50 | 5,000 mg/kg (Rat) |
| Inhalative | LC50/4 h | >10.8 mg/l (Rat) |

(Contd. on page 7)

⁻ GB

Printing date 13.11.2019

Revision: 13.11.2019

Trade name: Hardener 9029 (Zip)

| | V Xylene (m | ir) | (Contd. of page |
|---|--|--|-----------------|
| 0ral | LD50 | 5,000 mg/kg (Rat) | |
| Dermal | LD50 LD50 | | |
| | | 2,000 mg/kg (rbt) | |
| | | 11 mg/l (Rat) | |
| | - | atomethyl-3,5,5-trimethylcyclohexyl isocyanate | |
| Oral | LD50 | 4,814 mg/kg (Rat) | |
| Dermal | LD50 | >7,000 mg/kg (Rat) | |
| | LC50/4 h | 0.03 mg/l (Rat) | |
| Causes ser Respirator May cause CMR effer Germ cell Carcinoge Reproduct STOT-sin May cause STOT-rep May cause | e an allergi cts (carcinu mutagenic enicity Base tive toxicity gle exposu e respirator peated expo e damage to | ritation. ensitisation c skin reaction. ogenity, mutagenicity and toxicity for reproduction) ity Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. re y irritation. | |
| SECTIO | | cological information | |
| 12.2 Persi | stence and | further relevant information available. degradability No further relevant information available. | |
| 12.4 Mobi Additiona General n Water haz Do not all Danger to 12.5 Resu PBT: Not vPvB: Not | ility in soil l ecologica otes: ard class 2 ow product drinking w lts of PBT applicable t applicable | e potential No further relevant information available. No further relevant information available. I information: (German Regulation) (Self-assessment): hazardous for water to reach ground water, water course or sewage system. vater if even small quantities leak into the ground. and vPvB assessment | |

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
 Recommendation: Disposal must be made according to official regulations.

(Contd. on page 8)

GB

Printing date 13.11.2019

Revision: 13.11.2019

Trade name: Hardener 9029 (Zip)

(Contd. of page 7)

| UNI263 1263 PAINT RELATED MATERIAL PAINT |
|---|
| |
| |
| TAINT |
| |
| |
| |
| 3 Flammable liquids. |
| 3 |
| |
| 111 |
| No |
| |
| Warning: Flammable liquids. 30 |
| F-E,S-E |
| A |
| : II of |
| Not applicable. |
| |
| 51 |
| 5L Code: El |
| Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 1000 ml |
| 3 D/F |
| D/E |
| 5L |
| Code: El |
| Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 1000 ml |
| |

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

• **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

(Contd. on page 9)

GB

Printing date 13.11.2019

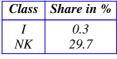
Revision: 13.11.2019

Trade name: Hardener 9029 (Zip)

(Contd. of page 8)

· National regulations:

· Technical instructions (air):



• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

| specific product features and shall not establish a legally valid contractual relation | onship. |
|---|------------------------------------|
| Full text of H-Statements referred to under sections 2 and 3: | |
| H226 Flammable liquid and vapour. | |
| H304 May be fatal if swallowed and enters airways. | |
| | |
| H312 Harmful in contact with skin. | |
| H315 Causes skin irritation. | |
| H317 May cause an allergic skin reaction. | |
| H319 Causes serious eye irritation. | |
| H330 Fatal if inhaled. | |
| H332 Harmful if inhaled. | |
| | |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| H335 May cause respiratory irritation. | |
| H373 May cause damage to organs through prolonged or repeated exposure. | |
| H411 Toxic to aquatic life with long lasting effects. | |
| Department issuing SDS: Product safety department: LABORATORY | |
| Contact: Health & Safety Officer | |
| Abbreviations and acronyms: | |
| RID: Règlement international concernant le transport des marchandises dangereuses par chemin d | le fer (Regulations Concerning the |
| International Transport of Dangerous Goods by Rail) | |
| ICAO: International Civil Aviation Organisation | |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agree | ement concerning the International |
| Carriage of Dangerous Goods by Road) | |
| IMDG: International Maritime Code for Dangerous Goods | |
| IATA: International Air Transport Association | |
| GHS: Globally Harmonised System of Classification and Labelling of Chemicals | |
| EINECS: European Inventory of Existing Commercial Chemical Substances | |
| ELINCS: European List of Notified Chemical Substances | |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) | |
| DNEL: Derived No-Effect Level (REACH) | |
| PNEC: Predicted No-Effect Concentration (REACH) | |
| LC50: Lethal concentration, 50 percent | |
| LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic | |
| vPvB: very Persistent and very Bioaccumulative | |
| Flam. Liq. 3: Flammable liquids – Category 3 | |
| Acute Tox. 4: Acute toxicity – Category 4 | |
| Acute Tox. 1: Acute toxicity – Category 1 | |
| Skin Irrit. 2: Skin corrosion/irritation – Category 2 | |
| Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 | |
| Resp. Sens. 1: Respiratory sensitisation – Category 1 | |
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| Skin Sens. 1: Skin sensitisation – Category 1 | |
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| STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 | |
| Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 | |