# **Hychem International**

Chemwatch Hazard Alert Code: 2

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L.GHS.AUS.EN

Chemwatch: **25-7188** Version No: **7.1** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

#### **Product Identifier**

| Product name                     | Hychem GP-T Resin  |  |
|----------------------------------|--|--|
| Chemical Name                    | ot Applicable  |  |
| Synonyms                         | t Available  |  |
| Proper shipping name             | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid) |  |
| Chemical formula                 | Not Applicable   |  |
| Other means of<br>identification | Not Available  |  |

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

| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---|
|--------------------------|---|

#### Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Hychem International                                     |  |
|-------------------------|--|--|
| Address                 | nit 1, 30 Bluett Drive Smeaton Grange NSW 2567 Australia |  |
| Telephone               | 2 4646 1660  |  |
| Fax                     | +61 2 4647 3700  |  |
| Website                 | Not Available  |  |
| Email                   | Not Available  |  |

#### Emergency telephone number

| Association / Organisation        | CHEMWATCH EMERGENCY RESPONSE (24/7) |  |
|-----------------------------------|-------------------------------------|--|
| Emergency telephone<br>numbers    | +61 1800 951 288                    |  |
| Other emergency telephone numbers | +61 3 9573 3188                     |  |

Once connected and if the message is not in your preferred language then please dial 01

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

| Poisons Schedule              | S5   |  |
|-------------------------------|--|--|
| Classification <sup>[1]</sup> | Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Hazardous to the Aquatic Environment Long-Term Hazard Category 2 |  |
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -<br>Annex VI   |  |

#### Label elements

Hazard pictogram(s)



Signal word Warning

# Hazard statement(s)

| H315 | Causes skin irritation.                          |
|------|--|
| H317 | May cause an allergic skin reaction.             |
| H319 | Causes serious eye irritation.                   |
| H411 | Toxic to aquatic life with long lasting effects. |

# Precautionary statement(s) Prevention

| P280 | P280 Wear protective gloves, protective clothing, eye protection and face protection. |  |
|------|---|--|
| P261 | Avoid breathing mist/vapours/spray.   |  |
| P273 | Avoid release to the environment.   |  |
| P264 | Wash all exposed external body areas thoroughly after handling.                       |  |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                |  |

### Precautionary statement(s) Response

| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.   |  |
|----------------|---|--|
| P305+P351+P338 | IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
| P333+P313      | in irritation or rash occurs: Get medical advice/attention.   |  |
| P337+P313      | eye irritation persists: Get medical advice/attention.  |  |
| P362+P364      | ake off contaminated clothing and wash it before reuse.   |  |
| P391           | Collect spillage.   |  |

### Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

| CAS No   | %[weight] | Name  |
|--|-----------|---|
| 25068-38-6   | >60       | bisphenol A/ diglycidyl ether resin, liquid |
| 68609-97-2   | <10       | (C12-14)alkylglycidyl ether                 |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -<br>Annex VI; 4. Classification drawn from C&L * EU IOELVs available |           |   |

# **SECTION 4 First aid measures**

#### Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |  |
|--------------|---|--|
| Skin Contact | <ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>   |  |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>   |  |

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# Hychem GP-T Resin

Ingestion

Immediately give a glass of water.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

| Fire Incompatibility | + Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may |
|----------------------|---|
| The moonpationity    | result  |

#### Advice for firefighters

| Fire Fighting         | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul> |  |
|-----------------------|---|--|
| Fire/Explosion Hazard | <ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>   |  |
| HAZCHEM               | •3Z   |  |

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

| Minor Spills | <ul> <li>Environmental hazard - contain spillage.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>                     |
|--------------|--|
| Major Spills | <ul> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> </ul> |

| <ul> <li>Stop leak if safe to do so.</li> </ul>   |
|---|
| <ul> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> </ul> |
| <ul> <li>Absorb remaining product with sand, earth or vermiculite.</li> </ul>   |
| <ul> <li>Collect solid residues and seal in labelled drums for disposal.</li> </ul>   |
| Wash area and prevent runoff into drains.   |
| If contamination of drains or waterways occurs, advise emergency services.  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

# Precautions for safe handling

| Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. | Safe handling     | <ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> |
|--|-------------------|--|
|  |                   | <ul> <li>Work clothes should be laundered separately.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>   |
|  | Other information | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>   |

# Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>   |
|-------------------------|--|
| Storage incompatibility | <ul> <li>Glycidyl ethers:</li> <li>may form unstable peroxides on storage in air ,light, sunlight, UV light or other ionising radiation, trace metals - inhibitor should be maintained at adequate levels</li> <li>may polymerise in contact with heat, organic and inorganic free radical producing initiators</li> <li>may polymerise with evolution of heat in contact with oxidisers, strong acids, bases and amines</li> <li>react violently with strong oxidisers, permanganates, peroxides, acyl halides, alkalis, ammonium persulfate, bromine dioxide</li> <li>attack some forms of plastics, coatings, and rubber</li> <li>Avoid reaction with oxidising agents</li> </ul> |

# SECTION 8 Exposure controls / personal protection

### **Control parameters**

#### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

### Emergency Limits

| Ingredient                                  | TEEL-1        | TEEL-2    |               | TEEL-3      |
|---|---------------|-----------|---------------|-------------|
| bisphenol A/ diglycidyl ether resin, liquid | 90 mg/m3      | 990 mg/m3 |               | 5,900 mg/m3 |
| Ingredient                                  | Original IDLH |           | Revised IDLH  |             |
| bisphenol A/ diglycidyl ether               | Not Available |           | Not Available |             |

| Ingredient                  | Original IDLH | Revised IDLH  |
|-----------------------------|---------------|---------------|
| resin, liquid               |               |               |
| (C12-14)alkylglycidyl ether | Not Available | Not Available |

| Ingredient                                  | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |  |  |
|---|--|----------------------------------|--|--|
| bisphenol A/ diglycidyl ether resin, liquid | E  | ≤ 0.1 ppm                        |  |  |
| (C12-14)alkylglycidyl ether                 | E  | ≤ 0.1 ppm                        |  |  |
| Notes:                                      | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. |                                  |  |  |

#### MATERIAL DATA

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

OSHA (USA) concluded that exposure to sensory irritants can:

cause inflammation

cause increased susceptibility to other irritants and infectious agents

lead to permanent injury or dysfunction

permit greater absorption of hazardous substances and

acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

#### **Exposure controls**

|                     | provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation<br>that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if<br>designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.<br>Employers may need to use multiple types of controls to prevent employee overexposure.<br>Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to |  |   |  |
|---------------------|---|--|---|--|
|                     | obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.<br>An approved self contained breathing apparatus (SCBA) may be required in some situations.   |  |   |  |
|                     | Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varyi<br>"escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the<br>contaminant.   |  |   |  |
| opriate engineering | <b>T</b> (0, 4, 5, 4  |  |   |  |
|                     | Type of Contaminant:  |  | Air Speed:  |  |
| controls            | Type of Contaminant:<br>solvent, vapours, degreasing etc., evaporating from tank (i   | n still air).  | Air Speed:<br>0.25-0.5 m/s<br>(50-100 f/min.)   |  |
|                     |   | ainer filling, low speed conveyer transfers,   | 0.25-0.5 m/s  |  |
|                     | solvent, vapours, degreasing etc., evaporating from tank (i<br>aerosols, fumes from pouring operations, intermittent cont<br>welding, spray drift, plating acid fumes, pickling (released   | ainer filling, low speed conveyer transfers,<br>at low velocity into zone of active  | 0.25-0.5 m/s<br>(50-100 f/min.)<br>0.5-1 m/s  |  |
|                     | solvent, vapours, degreasing etc., evaporating from tank (i<br>aerosols, fumes from pouring operations, intermittent cont<br>welding, spray drift, plating acid fumes, pickling (released<br>generation)<br>direct spray, spray painting in shallow booths, drum filling,   | ainer filling, low speed conveyer transfers,<br>at low velocity into zone of active<br>conveyer loading, crusher dusts, gas  | 0.25-0.5 m/s<br>(50-100 f/min.)<br>0.5-1 m/s<br>(100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s |  |
|                     | solvent, vapours, degreasing etc., evaporating from tank (i<br>aerosols, fumes from pouring operations, intermittent cont<br>welding, spray drift, plating acid fumes, pickling (released<br>generation)<br>direct spray, spray painting in shallow booths, drum filling,<br>discharge (active generation into zone of rapid air motion)<br>grinding, abrasive blasting, tumbling, high speed wheel ge  | ainer filling, low speed conveyer transfers,<br>at low velocity into zone of active<br>conveyer loading, crusher dusts, gas  | 0.25-0.5 m/s<br>(50-100 f/min.)<br>0.5-1 m/s<br>(100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s |  |
| -                   | solvent, vapours, degreasing etc., evaporating from tank (i<br>aerosols, fumes from pouring operations, intermittent cont<br>welding, spray drift, plating acid fumes, pickling (released<br>generation)<br>direct spray, spray painting in shallow booths, drum filling,<br>discharge (active generation into zone of rapid air motion)<br>grinding, abrasive blasting, tumbling, high speed wheel ge<br>velocity into zone of very high rapid air motion).  | ainer filling, low speed conveyer transfers,<br>at low velocity into zone of active<br>conveyer loading, crusher dusts, gas  | 0.25-0.5 m/s<br>(50-100 f/min.)<br>0.5-1 m/s<br>(100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)               |  |
|                     | solvent, vapours, degreasing etc., evaporating from tank (i<br>aerosols, fumes from pouring operations, intermittent cont<br>welding, spray drift, plating acid fumes, pickling (released<br>generation)<br>direct spray, spray painting in shallow booths, drum filling,<br>discharge (active generation into zone of rapid air motion)<br>grinding, abrasive blasting, tumbling, high speed wheel ge<br>velocity into zone of very high rapid air motion).<br>Within each range the appropriate value depends on:   | ainer filling, low speed conveyer transfers,<br>at low velocity into zone of active<br>conveyer loading, crusher dusts, gas<br>nerated dusts (released at high initial | 0.25-0.5 m/s<br>(50-100 f/min.)<br>0.5-1 m/s<br>(100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s |  |

|  | 3: Intermittent, low production.   | 3: High production, heavy use   |  |
|--|--|---|--|
|  | 4: Large hood or large air mass in motion  | 4: Small hood-local control only  |  |
| Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe.<br>generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air spee<br>extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The ai<br>extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in<br>meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the<br>apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction so |  |   |  |
| Individual protection<br>measures, such as<br>personal protective<br>equipment   | installed or used.   |   |  |
| Eye and face protection  | document, describing the wearing of lenses or r<br>include a review of lens absorption and adsorpti<br>Medical and first-aid personnel should be traine<br>event of chemical exposure, begin eye irrigation<br>be removed at the first signs of eye redness or i   | contact lenses may absorb and concentrate irritants. A written policy<br>estrictions on use, should be created for each workplace or task. This shoul<br>ion for the class of chemicals in use and an account of injury experience.<br>d in their removal and suitable equipment should be readily available. In the<br>i immediately and remove contact lens as soon as practicable. Lens should<br>rritation - lens should be removed in a clean environment only after workers<br>current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]  |  |
| Skin protection  | See Hand protection below  |   |  |
|  | The selection of suitable gloves does not only dependent of the selection of suitable gloves does not only dependent of the exact break through time for substances has to observed when making a final choice.<br>Personal hygiene is a key element of effective hand should be washed and dried thoroughly. Application Suitability and durability of glove type is dependent of frequency and duration of contact,<br>chemical resistance of glove material,<br>glove thickness and<br>dexterity<br>Select gloves tested to a relevant standard (e.g. Eu<br>When prolonged or frequently repeated contact material<br>greater than 240 minutes according to EN 374, AS/<br>When only brief contact is expected, a glove with a<br>according to EN 374, AS/NZS 2161.10.1 or national | ts and watch-bands should be removed and destroyed.<br>Ind on the material, but also on further marks of quality which vary from<br>is a preparation of several substances, the resistance of the glove material<br>to be checked prior to the application.<br>be obtained from the manufacturer of the protective gloves and has to be<br>I care. Gloves must only be worn on clean hands. After using gloves, hands<br>a of a non-perfumed moisturiser is recommended.<br>on usage. Important factors in the selection of gloves include:<br>rope EN 374, US F739, AS/NZS 2161.1 or national equivalent).<br>ay occur, a glove with a protection class of 5 or higher (breakthrough time<br>NZS 2161.10.1 or national equivalent) is recommended.<br>a protection class of 3 or higher (breakthrough time greater than 60 minutes |  |
| Hands/feet protection  | permeation efficiency of the glove will be dependent<br>should also be based on consideration of the task re<br>Glove thickness may also vary depending on the glo<br>manufacturers technical data should always be take<br>Note: Depending on the activity being conducted, gl<br>• Thinner gloves (down to 0.1 mm or less) may be re   | pically greater than 0.35 mm, are recommended.<br>necessarily a good predictor of glove resistance to a specific chemical, as t<br>t on the exact composition of the glove material. Therefore, glove selection   |  |

· Butyl Rubber ranges from excellent to good

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| Neoprene from excellent to fair     Polyvinyl (PVC) from excellent to poor     As defined in ASTM F-739-96     Excellent breakthrough time > 480 min     Coad breakthrough time > 20 min |
|--|
| As defined in ASTM F-739-96<br>• Excellent breakthrough time > 480 min   |
| <ul> <li>Excellent breakthrough time &gt; 480 min</li> </ul>   |
|  |
|  |
| Good breakthrough time > 20 min  |
| · Fair breakthrough time < 20 min  |
| Poor glove material degradation  |
| Gloves should be tested against each resin system prior to making a selection of the most suitable type. Systems include both  |
| the resin and any hardener, individually and collectively)   |
| • DO NOT use cotton or leather (which absorb and concentrate the resin), natural rubber (latex), medical or polyethylene gloves  |
| (which absorb the resin).  |
| • DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams   |
| should be reviewed prior to use.   |
| Replacement time should be considered when selecting the most appropriate glove. It may be more effective to select a glove  |
| with lower chemical resistance but which is replaced frequently than to select a more resistant glove which is reused many times   |
| Body protection See Other protection below   |
| ► Overalls.  |
| ► P.V.C apron.   |
| Other protection barrier cream.  |
| <ul> <li>Skin cleansing cream.</li> </ul>  |
| ▶ Eye wash unit.   |

#### **Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face<br>Respirator | Full-Face<br>Respirator |
|------------------------------------|--|-------------------------|-------------------------|
| up to 10                           | 1000   | A-AUS / Class1 P2       | -                       |
| up to 50                           | 1000   | -                       | A-AUS / Class 1 P2      |
| up to 50                           | 5000   | Airline *               | -                       |
| up to 100                          | 5000   | -                       | A-2 P2                  |
| up to 100                          | 10000  | -                       | A-3 P2                  |
| 100+                               |  |                         | Airline**               |

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

| Appearance                             | Cloudy liquid; does not mix with water. |  |                |
|--|---|--|----------------|
| Physical state                         | Liquid                                  | Relative density (Water = 1)               | 1.1            |
| Odour                                  | Not Available                           | Partition coefficient<br>n-octanol / water | Not Available  |
| Odour threshold                        | Not Available                           | Auto-ignition temperature<br>(°C)          | Not Applicable |
| pH (as supplied)                       | Not Available                           | Decomposition<br>temperature (°C)          | Not Available  |
| Melting point / freezing<br>point (°C) | Not Available                           | Viscosity (cSt)                            | Not Available  |

| Initial boiling point and<br>boiling range (°C) | Not Available  | Molecular weight (g/mol)            | Not Applicable |
|---|----------------|-------------------------------------|----------------|
| Flash point (°C)                                | Not Applicable | Taste                               | Not Available  |
| Evaporation rate                                | Not Available  | Explosive properties                | Not Available  |
| Flammability                                    | Not Applicable | Oxidising properties                | Not Available  |
| Upper Explosive Limit (%)                       | Not Applicable | Surface Tension (dyn/cm<br>or mN/m) | Not Available  |
| Lower Explosive Limit (%)                       | Not Applicable | Volatile Component (%vol)           | Not Available  |
| Vapour pressure (kPa)                           | Not Available  | Gas group                           | Not Available  |
| Solubility in water                             | Immiscible     | pH as a solution (1%)               | Not Available  |
| Vapour density (Air = 1)                        | Not Available  | VOC g/L                             | Not Available  |

# SECTION 10 Stability and reactivity

| Reactivity                          | See section 7  |
|-------------------------------------|--|
| Chemical stability                  | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions  | See section 7  |
| Conditions to avoid                 | See section 7  |
| Incompatible materials              | See section 7  |
| Hazardous decomposition<br>products | See section 5  |

# **SECTION 11 Toxicological information**

# Information on toxicological effects

| Inhaled      | Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.  |
|--------------|--|
| Ingestion    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.   |
| Skin Contact | Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| Eye          | Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals<br>and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of<br>experimental animals.<br>Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the<br>conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.   |
| Chronic      | Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive.   |

| Substances than can cuase occupational asthma should be distinguished from substances which may trigger the symptoms of<br>asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or<br>respiratory sensitisers  |
|---|
| Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive.   |
| Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may  |
| cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.<br>Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving  |
| organs or biochemical systems.<br>Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of   |
| individuals at a greater frequency than would be expected from the response of a normal population.<br>Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue,  |
| malaise and aching. Significant symptoms of exposure may persist for extended periods, even after exposure ceases. Symptoms can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes and passive smoking.<br>All glycidyl ethers show genotoxic potential due their alkylating properties. Those glycidyl ethers that have been investigated in long term studies exhibit more or less marked carcinogenic potential. Alkylating agents may damage the stem cell which acts as |
| the precursor to components of the blood. Loss of the stem cell may result in pancytopenia (a reduction in the number of red and white blood cells and platelets) with a latency period corresponding to the lifetime of the individual blood cells. Granulocytopenia (a reduction in granular leukocytes) develops within days and thrombocytopenia (a disorder involving platelets), within 1-2 weeks,  |
| whilst loss of erythrocytes (red blood cells) need months to become clinically manifest. Aplastic anaemia develops due to complete destruction of the stem cells.   |
| Reported adverse effects in laboratory animals include sensitization, and skin and eye irritation, as well as mutagenic and tumorigenic activity.   |
| Testicular abnormalities (including testicular atrophy with decreased spermatogenic activity) following exposure to glycidyl ethers<br>have been reported. Haemopoietic abnormalities following exposure to glycidyl ethers, including alteration of the leukocyte count,<br>atrophy of lymphoid tissue, and bone marrow cytotoxicity have also been reported. These abnormalities were usually observed  |
| along with pneumonia and/or toxemia, and therefore may be secondary effects. However, especially in light of the generalized reduction in leukocytes and the atrophy of lymphoid tissues, the observed haemopoietic abnormalities may have been   |
| predisposing factors to pneumonia. While none of the individual research reports are conclusive with respect to the ability of  |

displayed effects is reason for concern

Glycidyl ethers have been shown to cause allergic contact dermatitis in humans. Glycidyl ethers generally cause skin sensitization in experimental animals. Necrosis of the mucous membranes of the nasal cavities was induced in mice exposed to allyl glycidyl ether.

glycidyl ethers to produce permanent changes to the testes or haemopoietic system in laboratory animals, the pattern of

A study of workers with mixed exposures was inconclusive with regard to the effects of specific glycidyl ethers. Phenyl glycidyl ether, but not n-butyl glycidyl ether, induced morphological transformation in mammalian cells in vitro. n-Butyl glycidyl ether induced micronuclei in mice in vivo following intraperitoneal but not oral administration. Phenyl glycidyl ether did not induce micronuclei or chromosomal aberrations in vivo or chromosomal aberrations in animal cells in vitro. Alkyl C12 or C14 glycidyl ether did not induce micronuclei or chromosomal aberrations in vivo or chromosomal aberrations in animal cells. Alkyl C12 or C14 glycidyl ether induced mutation in Drosophila. The glycidyl ethers were generally mutagenic to bacteria.

| Husham CD T Basin                              | ΤΟΧΙΟΙΤΥ   | IRRITATION  |
|--|--|---|
| Hychem GP-T Resin                              | Not Available  | Not Available   |
|  | ΤΟΧΙΟΙΤΥ   | IRRITATION  |
| bisphenol A/ diglycidyl<br>ether resin, liquid | dermal (rat) LD50: >1200 mg/kg <sup>[2]</sup>  | Eye (rabbit): 100mg - Mild  |
| ether ream, nquiu                              | Oral (Mouse) LD50; >500 mg/kg <sup>[2]</sup>   |   |
|  | ΤΟΧΙΟΙΤΥ   | IRRITATION  |
|  | Oral (Rat) LD50: >10000 mg/kg <sup>[2]</sup>   | Eye (rabbit): mild [Ciba]   |
|  |  | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
|  |  | Skin (guinea pig): sensitiser   |
| (C12-14)alkylglycidyl ether                    |  | Skin (human): Irritant  |
|  |  | Skin (human): non- sensitiser   |
|  |  | Skin (rabbit): moderate   |
|  |  | Skin : Moderate   |
|  |  | Skin: adverse effect observed (irritating) <sup>[1]</sup>   |
| Legend:  | 1. Value obtained from Europe ECHA Registered Substa<br>Unless otherwise specified data extracted from RTECS | nces - Acute toxicity 2. Value obtained from manufacturer's SDS.<br>- Register of Toxic Effect of chemical Substances |

A/ Foetoxicity has been observed in animal studies Oral (rabbit, female) NOEL 180 mg/kg (teratogenicity; NOEL (maternal 60 mg/kg

| DIGLYCIDYL ETHER<br>RESIN, LIQUID  | The chemical structure of hydroxylated dipherylakianes or hisphenols consists of two phenolic rinos joined together through a bridging cahon. This class of endotoxies exhibit oestrogenic activity in human breast cancer cell line KCF-7, but three were markable differences in activity. Several derivations of DPA orbibates significant tyruorylaring and the E-phenyl frang distributions of the sub-state of the sub-state significant tyruory ingrand the E-phenyl frang distributions of the sub-state significant tyruory ingrand the E-phenyl frang and the E-phenyl frang distribution and increased the synthesis and secretion of cell type-specific proteins. When ranked by Bisphenols promoted cell profileration and increased the synthesis and secretion of cell type-specific proteins. When ranked by Bisphenols promoted cell profileration and increased the synthesis and secretion of cell type-specific proteins. When ranked by Bisphenols (profilerative compound continued wor profileratives and the schiding cakon. Bisphenols with wo hydroxyl groups in the para position and an angular configuration are suitable for appropriate hydrogen borning to the acceptor set of the estrogene receptor. In vitro cell models were used to evaluate the ability of 22 bisphenols (B-P), bisphenol B (E-P), tetrametryl bisphenol X (E-PAP), bisphenol S (E-PE), bisphenol B (E-PE), tetrametryl bisphenol X (E-PAP), bisphenol S (E-PE), and PHBE, these same BPa were also androgen receptor (Raghan and/or EHB) miduced between used to evaluate the ability of 22 bisphenols (RB) bisphenol S (E-PE). Sisphenol S (E-PE), bisphenol S (E-PE), bisphenol S (E-PE), bisphenol S (E-PE), tetrametryl bisphenol X (FO-PE), and X (FO-PE), and X (FO-PE) and X (FO-PE). The sector of X (FO-PE) and X (FO-PE) and X (FO-PE) and X (FO-PE) and X (FO-PE). The sector of X (FO-PE) and X (FO-PE) and X (FO-PE). The Sector of X (FO-PE) and X (FO-PE) and X (FO-PE). The Sector of X (FO-PE) and X (FO-PE) and X (FO-PE). The Sector of X (FO-PE) and X (FO-PE) and X (FO-PE) and X (FO-PE) and X (F |
|--|--|
| Hychem GP-T Resin & (<br>BISPHENOL A/<br>DIGLYCIDYL ETHER<br>RESIN, LIQUID & S<br>(C12-14)ALKYLGLYCIDYL<br>ETHER | The following information refers to contact allergens as a group and may not be specific to this product.<br>Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The<br>pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic<br>skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not<br>simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are<br>equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with<br>stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are<br>noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.  |

Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) exhibit many common characteristics with respect to animal toxicology. One such oxirane is ethyloxirane; data presented here may be taken as representative. for 1,2-butylene oxide (ethyloxirane):

Hychem GP-T Resin & (C12-14)ALKYLGLYCIDYL ETHER Ethyloxirane increased the incidence of tumours of the respiratory system in male and female rats exposed via inhalation. Significant increases in nasal papillary adenomas and combined alveolar/bronchiolar adenomas and carcinomas were observed in male rats exposed to 1200 mg/m3 ethyloxirane via inhalation for 103 weeks. There was also a significant positive trend in the incidence of combined alveolar/bronchiolar adenomas and carcinomas. Nasal papillary adenomas were also observed in 2/50 high-dose female rats with none occurring in control or low-dose animals. In mice exposed chronically via inhalation, one male mouse developed a squamous cell papilloma in the nasal cavity (300 mg/m3) but other tumours were not observed. Tumours were not observed in mice exposed chronically via dermal exposure. When trichloroethylene containing 0.8% ethyloxirane was administered orally to mice for up to 35 weeks, followed by 0.4% from weeks 40 to 69, squamous-cell carcinomas of the forestomach occurred in 3/49 males (p=0.029, age-adjusted) and 1/48 females at week 106. Trichloroethylene administered alone did not induce these tumours and they were not observed in control animals. Two structurally related substances, oxirane (ethylene oxide) and methyloxirane (propylene oxide), which are also direct-acting alkylating agents, have been classified as carcinogenic

| Acute Toxicity                       | × | Carcinogenicity          | × |
|--------------------------------------|---|--------------------------|---|
| Skin Irritation/Corrosion            | ✓ | Reproductivity           | × |
| Serious Eye<br>Damage/Irritation     | × | STOT - Single Exposure   | × |
| Respiratory or Skin<br>sensitisation | × | STOT - Repeated Exposure | × |
| Mutagenicity                         | × | Aspiration Hazard        | × |

Legend:

Data available to make classification

# **SECTION 12 Ecological information**

|  | Endpoint         | Test Duration (hr) | Species       | Value            | Source           |
|--|------------------|--------------------|---------------|------------------|------------------|
| Hychem GP-T Resin                              | Not<br>Available | Not Available      | Not Available | Not<br>Available | Not<br>Available |
|  | Endpoint         | Test Duration (hr) | Species       | Value            | Source           |
| bisphenol A/ diglycidyl<br>ether resin, liquid | EC50(ECx)        | 24h                | Crustacea     | 3mg/l            | Not<br>Availabl  |
|  | LC50             | 96h                | Fish          | 2.4mg/l          | Not<br>Availabl  |
|  | EC50             | 48h                | Crustacea     | ~2mg/l           | 2                |
|  | Endpoint         | Test Duration (hr) | Species       | Value            | Sourc            |
|  | EC50(ECx)        | 48h                | Crustacea     | 6.07mg/l         | 2                |
| (C12-14)alkylglycidyl ether                    | LC50             | 96h                | Fish          | >5000mg/l        | 2                |
|  | EC50             | 48h                | Crustacea     | 6.07mg/l         | 2                |

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient                                  | Persistence: Water/Soil | Persistence: Air |
|---|-------------------------|------------------|
| bisphenol A/ diglycidyl ether resin, liquid | HIGH                    | HIGH             |

#### **Bioaccumulative potential**

| Ingredient                                  | Bioaccumulation       |
|---|-----------------------|
| bisphenol A/ diglycidyl ether resin, liquid | LOW (LogKOW = 2.6835) |

## Mobility in soil

| Ingredient                                  | Mobility          |
|---|-------------------|
| bisphenol A/ diglycidyl ether resin, liquid | LOW (KOC = 51.43) |

# **SECTION 13 Disposal considerations**

| Waste treatment method          | ls   |
|---------------------------------|--|
| Product / Packaging<br>disposal | <ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |

# **SECTION 14 Transport information**

| Marine Pollutant |  |
|------------------|--|
| HAZCHEM •3Z      |  |

# Land transport (ADG)

| 3082   |  |  |
|--|--|--|
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid) |  |  |
| Class 9<br>Subsidiary risk N   |  |  |
| Ш  |  |  |
| Environmentally hazardous  |  |  |
| Special provisions274 331 335 375 AU01Limited quantity5 L  |  |  |
|  | ENVIRONMENTALLY<br>Class 9<br>Subsidiary risk N<br>III<br>Environmentally haza<br>Special provisions |  |

are not subject to this Code when transported by road or rail in;

(a) packagings;

(b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L).

- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

#### Air transport (ICAO-IATA / DGR)

| UN number                       | 3082   |                |                    |  |
|---------------------------------|--|----------------|--------------------|--|
| UN proper shipping name         | Environmentally hazardous substance, liquid, n.o.s. (contains bisphenol A/ diglycidyl ether resin, liquid) |                |                    |  |
|                                 | ICAO/IATA Class  | 9              |                    |  |
| Transport hazard class(es)      | ICAO / IATA Subrisk  | Not Applicable |                    |  |
|                                 | ERG Code   | 9L             |                    |  |
| Packing group                   | III  |                |                    |  |
| Environmental hazard            | Environmentally hazardous  |                |                    |  |
| Special precautions for<br>user | Special provisions   |                | A97 A158 A197 A215 |  |
|                                 | Cargo Only Packing Instructions  |                | 964                |  |
|                                 | Cargo Only Maximum Qty / Pack  |                | 450 L              |  |
|                                 | Passenger and Cargo Packing Instructions   |                | 964                |  |
|                                 | Passenger and Cargo Maximum Qty / Pack   |                | 450 L              |  |
|                                 | Passenger and Cargo Limited Quantity Packing Instructions  |                | Y964               |  |
|                                 | Passenger and Cargo Limited Maximum Qty / Pack   |                | 30 kg G            |  |

### Sea transport (IMDG-Code / GGVSee)

| UN number                       | 3082   |                                |  |
|---------------------------------|--|--------------------------------|--|
| UN proper shipping name         | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid) |                                |  |
| Transport hazard class(es)      |  |                                |  |
| Packing group                   | II   |                                |  |
| Environmental hazard            | Marine Pollutant   |                                |  |
| Special precautions for<br>user | EMS Number<br>Special provisions<br>Limited Quantities   | F-A, S-F<br>274 335 969<br>5 L |  |

# Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                                | Group         |
|---|---------------|
| bisphenol A/ diglycidyl ether resin, liquid | Not Available |
| (C12-14)alkylglycidyl ether                 | Not Available |

#### Transport in bulk in accordance with the IGC Code

| Product name                                | Ship Type     |
|---|---------------|
| bisphenol A/ diglycidyl ether resin, liquid | Not Available |
| (C12-14)alkylglycidyl ether                 | Not Available |

# **SECTION 15 Regulatory information**

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

bisphenol A/ diglycidyl ether resin, liquid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

#### (C12-14)alkylglycidyl ether is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

Chemical Footprint Project - Chemicals of High Concern List International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Chemical Footprint Project - Chemicals of High Concern List

| National Inventory                                 | Status   |  |  |
|--|--|--|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes  |  |  |
| Canada - DSL                                       | Yes  |  |  |
| Canada - NDSL                                      | No (bisphenol A/ diglycidyl ether resin, liquid; (C12-14)alkylglycidyl ether)  |  |  |
| China - IECSC                                      | Yes  |  |  |
| Europe - EINEC / ELINCS /<br>NLP                   | /es  |  |  |
| Japan - ENCS                                       | lo ((C12-14)alkylglycidyl ether)   |  |  |
| Korea - KECI                                       | Yes  |  |  |
| New Zealand - NZIoC                                | Yes  |  |  |
| Philippines - PICCS                                | Yes  |  |  |
| USA - TSCA   | Yes  |  |  |
| Taiwan - TCSI                                      | Yes  |  |  |
| Mexico - INSQ                                      | No ((C12-14)alkylglycidyl ether)   |  |  |
| Vietnam - NCI                                      | Yes  |  |  |
| Russia - FBEPH                                     | Yes  |  |  |
| Legend:  | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require<br>registration. |  |  |

# **SECTION 16 Other information**

| Revision Date | 10/03/2023 |
|---------------|------------|
| Initial Date  | 08/02/2011 |

#### **SDS Version Summary**

| Version | Date of Update | Sections Updated  |
|---------|----------------|---|
| 6.1     | 23/12/2022     | Classification review due to GHS Revision change.                     |
| 7.1     | 10/03/2023     | Classification change due to full database hazard calculation/update. |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure  $\mathsf{Limit}_\circ$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors **BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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