

## Safety Data Sheet

### EPOXY RESIN

Version 1.1

Revision Date: 11/05/2022

#### SECTION 1. IDENTIFICATION

**Product name** : EPOXY RESIN

**Synonyms** : NPEL 127, NPEL 128, NPEL 128E

#### Recommended use of the chemical and restrictions on use

**Recommended use** : Reserved for industrial and professional use.

**Restricted Uses** : No data available

#### Manufacturer or supplier's details

**Company** : Univar Solutions Canada Ltd.  
**Address** : 64 Arrow Road  
 North York, ON, M9M 2L9  
 Canada

#### Emergency telephone number:

Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827

**Additional Information:** : Responsible Party: Product Compliance Department  
 E-mail: SDSNA@univarsolutions.com  
 SDS Requests: 1-855-429-2661  
 Website: www.univarsolutions.com

#### SECTION 2. HAZARD IDENTIFICATION

#### Hazardous Classification of the substance or mixture

**Skin irritation** : Category 2

**Eye irritation** : Category 2A

**Skin sensitisation** : Sub-category 1A

#### Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

**Precautionary statements** : **Prevention:**  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**

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P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

| CAS-No.    | Chemical name                       | % by Weight | Synonyms                            |
|------------|-------------------------------------|-------------|-------------------------------------|
| 25068-38-6 | Bisphenol A-diglycidyl ether resins | 80 - 100    | Bisphenol A-diglycidyl ether resins |

Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST-AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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#### SECTION 5. FIREFIGHTING MEASURES

|                                               |                                                                                                                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Foam<br>Water spray<br>Dry powder<br>Carbon dioxide (CO <sub>2</sub> )                                                                                                                                                    |
| Unsuitable extinguishing media                | : High volume water jet<br><br>High volume water jet                                                                                                                                                                        |
| Specific hazards during fire-fighting         | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                                                                                                 |
| Hazardous combustion products                 | : Carbon oxides<br>toxic fumes<br>Smoke<br>Irritating fumes or substances may form.<br>hydrogen chloride<br>Aldehydes<br>Other pyrolysis products typical of burning organic material.<br>phenols<br>Incompatible materials |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.   |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                    |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.                                                                                                                                                      |
| Environmental precautions                                           | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                             |

#### SECTION 7. HANDLING AND STORAGE

|                                                 |                                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection.                                          |
| Advice on safe handling                         | : Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use. |

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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <p>Avoid contact with skin and eyes.<br/>For personal protection see section 8.<br/>Smoking, eating and drinking should be prohibited in the application area.<br/>Dispose of rinse water in accordance with local and national regulations.<br/>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</p> |
| Conditions for safe storage | <p>: Keep container tightly closed in a dry and well-ventilated place.<br/>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br/>Electrical installations / working materials must comply with the technological safety standards.</p>                                                                                                                                                                  |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

|                          |                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection   | : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. |
| Filter type              | : Organic vapour type                                                                                                                                                             |
| Hand protection          |                                                                                                                                                                                   |
| Remarks                  | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.                                                                       |
| Eye protection           | : Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems.                                     |
| Skin and body protection | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.                                           |
| Hygiene measures         | : When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                                                              |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                 |                     |
|-----------------|---------------------|
| Appearance      | : liquid            |
| Colour          | : light yellow      |
| Odour           | : mild              |
| Odour Threshold | : No data available |
| pH              | : No data available |
| Freezing Point  | : No data available |
| Boiling Point   | : No data available |
| Flash point     | : > 250 °C (482 °F) |

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|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Evaporation rate                       | : No data available                      |
| Flammability (solid, gas)              | : No data available                      |
| Upper explosion limit                  | : No data available                      |
| Lower explosion limit                  | : No data available                      |
| Vapour pressure                        | : No data available                      |
| Relative vapour density                | : No data available                      |
| Relative density                       | : 1.16 @ 20 °C (68 °F)                   |
| Density                                | : 1.16 g/cm <sup>3</sup> @ 20 °C (68 °F) |
| Solubility(ies)                        |                                          |
| Water solubility                       | : No data available                      |
| Solubility in other solvents           | : insoluble<br>@ 20 °C (68 °F)           |
| Partition coefficient: n-octanol/water | : No data available                      |
| Auto-ignition temperature              | : No data available                      |
| Thermal decomposition                  | : No data available                      |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                                                                                      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No dangerous reaction known under conditions of normal use.<br>No decomposition if stored and applied as directed. |
| Chemical stability                 | : Stable under normal conditions.<br>No decomposition if stored and applied as directed.                             |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed.                                                                |
| Conditions to avoid                | : No data available                                                                                                  |
| Incompatible materials             | : Amines<br>Oxidizing agents<br>Strong acids<br>Strong bases                                                         |

**SECTION 11. TOXICOLOGICAL INFORMATION****Skin corrosion/irritation****Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Components:****25068-38-6:**

Species: Rabbit

Result: Irritating to skin.

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#### Serious eye damage/eye irritation

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

**25068-38-6:**

Species: Rabbit

Result: Irritating to eyes.

#### Respiratory or skin sensitisation

**Product:**

Remarks: Causes sensitisation.

**Components:**

**25068-38-6:**

Test Type: lymph node assay

Species: Mouse

Result: The product is a skin sensitiser, sub-category 1A.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### Further information

**Product:**

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

**Components:**

**25068-38-6:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.6 mg/l  
Exposure time: 24 h  
Test Type: static test

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 9.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.3 mg/l  
Exposure time: 21 d

Acute aquatic toxicity- Assessment : Toxic to aquatic life.

Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

#### TDG (Transportation of Dangerous Goods):

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BISPHENOL A-DIGLYCIDYL ETHER RESINS), 9, III

#### IATA (International Air Transport Association):

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BISPHENOL A-DIGLYCIDYL ETHER RESINS) , 9, III

#### IMDG (International Maritime Dangerous Goods):

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UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BISPHENOL A-DIGLYCIDYL ETHER RESINS), 9, III, Marine Pollutant (BISPHENOL A-DIGLYCIDYL ETHER RESINS), Flash Point: 250 °C (482 °F)

**Special Notes:** : In accordance with 49 CFR non-bulk containers (less than 450L/119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

#### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

**The components of this product are reported in the following inventories:**

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) [SDSNA@univarsolutions.com](mailto:SDSNA@univarsolutions.com).

**Revision Date** : 11/05/2022

**Material number:**

16189086, 16148707, 16141582, 16140280, 16140279, 16141073

| Key or legend to abbreviations and acronyms used in the safety data sheet |                             |      |                 |
|---------------------------------------------------------------------------|-----------------------------|------|-----------------|
| ACGIH                                                                     | American Conference of Gov- | LD50 | Lethal Dose 50% |

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|        |                                                          |       |                                                                                      |
|--------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
|        | Government Industrial Hygienists                         |       |                                                                                      |
| AICS   | Australia, Inventory of Chemical Substances              | LOAEL | Lowest Observed Adverse Effect Level                                                 |
| DSL    | Canada, Domestic Substances List                         | NFPA  | National Fire Protection Agency                                                      |
| NDSL   | Canada, Non-Domestic Substances List                     | NIOSH | National Institute for Occupational Safety & Health                                  |
| CNS    | Central Nervous System                                   | NTP   | National Toxicology Program                                                          |
| CAS    | Chemical Abstract Service                                | NZIoC | New Zealand Inventory of Chemicals                                                   |
| EC50   | Effective Concentration                                  | NOAEL | No Observable Adverse Effect Level                                                   |
| EC50   | Effective Concentration 50%                              | NOEC  | No Observed Effect Concentration                                                     |
| EGEST  | EOSCA Generic Exposure Scenario Tool                     | OSHA  | Occupational Safety & Health Administration                                          |
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit                                                           |
| EINECS | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK    | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic                                                                   |
| GHS    | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act                                                   |
| >=     | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit                                                            |
| IC50   | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act.                                        |
| IARC   | International Agency for Research on Cancer              | TLV   | Threshold Limit Value                                                                |
| IECSC  | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average                                                                |
| ENCS   | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act                                                          |
| KECI   | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=     | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50   |                                                          |       | Lethal Concentration 50%                                                             |