

## Safety Data Sheet

### D.E.H.™ 488 Epoxy Curing Agent

Version 1.1

Revision Date: 12/14/2020

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : D.E.H.™ 488 Epoxy Curing Agent

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

Recommended use : Curing chemical

#### Supplier or Repackaging Details

**Company** : Univar Solutions México, S. de R.L. de C.V.  
**Address** : Av. Xola, número 535, piso 2, Col. Del Valle Norte  
 Deleg. Benito Juárez CP 03103  
 Ciudad de México  
 Mexico

**Manufactured By** : BLUE CUBE MEXICO S. DE R.L. DE C.V.

#### Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)

CHEMTREC INTERNATIONAL Tel # 703-527-3887

SETIQ 800 00 214 00 / 55 55 59 15 88

**Additional Information:** : Responsible Party: Product Compliance Department  
 E-Mail: SDSLA@univarsolutions.com  
 SDS Requests: 55 1107 0170  
 Website: www.univarsolutions.com

#### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.

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P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

This SDS was prepared according to NOM-018-STPS-2015.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

| CAS-No.    | Chemical name                                                                        | Weight percent |
|------------|--------------------------------------------------------------------------------------|----------------|
| 68609-08-5 | Isophorone diamine, reaction products with bisphenol A - epichlorohydrin homopolymer | 50 - 70        |
| 100-51-6   | Benzenemethanol                                                                      | 30 - 50        |
| 1477-55-0  | 1,3-Benzenedimethanamine                                                             | 5 - 10         |
| 69-72-7    | Benzoic acid, 2-hydroxy-                                                             | 5 - 10         |

Any concentration shown as a range is due to batch variation.

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

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|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled                                                  | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                                                                                                                                                                                                                                 |
| In case of skin contact                                     | : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                                                                                              |
| In case of eye contact                                      | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed                                                | : Clean mouth with water and drink afterwards plenty of water.<br>Keep respiratory tract clear.<br>Do not induce vomiting without medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.                                                       |
| Most important symptoms and effects, both acute and delayed | : None known.                                                                                                                                                                                                                                                                                                                                                                                   |

## SECTION 5. FIREFIGHTING MEASURES

|                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Water spray<br>Dry chemical<br>Carbon dioxide (CO2)<br>Foam<br>Alcohol-resistant foam                                                                                                                                   |
| Unsuitable extinguishing media                | : 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>phenols                                                                                                                                                                                                |
| Specific extinguishing methods                | : 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, protection | : Use personal protective equipment. |
|----------------------------------|--------------------------------------|

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tive equipment and emergency procedures

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
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).  
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.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
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.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : 5 - 30 °C

Storage period : 24 Months

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| CAS-No.   | Components               | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis  |
|-----------|--------------------------|----------------------------------|------------------------------------------------|--------|
| 1477-55-0 | 1,3-Benzenedimethanamine | P                                | 0.1 mg/m3                                      | MX OEL |
| R7        |                          | C                                | 0.1 mg/m3                                      | ACGIH  |

### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

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|                          |   |                                                                                                                                             |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------|
| Filter type              | : | ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.                      |
| Hand protection          | : | Combined particulates and organic vapour type                                                                                               |
| 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.       |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                             |   |                                       |
|---------------------------------------------|---|---------------------------------------|
| Appearance                                  | : | liquid                                |
| Colour                                      | : | Clear, Colorless                      |
| Odour                                       | : | amine-like                            |
| Odour Threshold                             | : | No data available                     |
| pH                                          | : | 8 - 11                                |
| Freezing point                              | : | No data available                     |
| Boiling point (Boiling point/boiling range) | : | > 200 °C (> 392 °F)<br>(1013 hPa)     |
| Flash point                                 | : | 110 °C (230 °F)<br>Method: closed cup |
| 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                             | : | < 5 hPa @ 50 °C (122 °F)              |
| Relative vapour density                     | : | No data available                     |
| Relative density                            | : | 1.02 @ 20 °C (68 °F)                  |
| Reference substance: (water = 1)            |   |                                       |
| Density                                     | : | No data available                     |
| Solubility(ies)                             | : | No data available                     |
| Water solubility                            | : | soluble                               |
| Solubility in other solvents                | : | No data available                     |
| Partition coefficient: n-octanol/water      | : | No data available                     |
| Auto-ignition temperature                   | : | No data available                     |
| Thermal decomposition                       | : | No data available                     |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No dangerous reaction known under conditions of normal use.                                                                                                                                                                               |
| Chemical stability                 | : Stable under normal conditions.                                                                                                                                                                                                           |
| Possibility of hazardous reactions | : No hazards to be specially mentioned.                                                                                                                                                                                                     |
| Conditions to avoid                | : elevated temperatures                                                                                                                                                                                                                     |
| Incompatible materials             | : Oxidizing agents<br>Acids<br>acrylates<br>Alcohols<br>Aldehydes<br>halogenated hydrocarbons<br>Ketones<br>nitrites<br>brass<br>bronze<br>Copper<br>Copper alloys<br>organic absorbents such as sawdust, peat moss, ground corn cobs, etc. |
| Hazardous decomposition products   | : Carbon oxides<br>nitrogen oxides<br>Smoke<br>Ammonia<br>ethylenediamine<br>volatile amines                                                                                                                                                |

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 639.26 mg/kg

**Components:****68609-08-5:**

Acute oral toxicity : LD50 (Rabbit): 3,100 mg/kg

Acute inhalation toxicity : Remarks: presumed non-toxic

Acute dermal toxicity : Remarks: presumed non-toxic

**100-51-6:**Acute oral toxicity : LD50 (Rat, male): 1,620 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

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**1477-55-0:**

Acute oral toxicity : LD50 (Rat, male and female): 500 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): 2.4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): > 3,100 mg/kg  
Assessment: The component/mixture is minimally toxic after single contact with skin.

**69-72-7:**

Acute oral toxicity : LD50 (Rat, male): 891 mg/kg  
Assessment: The component/mixture is moderately toxic after single ingestion.

**Skin corrosion/irritation****Components:****68609-08-5:**

Result: Causes burns.

Remarks: No data available

**1477-55-0:**

Species: Rabbit

Result: Causes burns.

**Serious eye damage/eye irritation****Components:****68609-08-5:**

Result: Risk of serious damage to eyes.

Remarks: No data available

**100-51-6:**

Species: Rabbit

Result: Irritating to eyes.

**1477-55-0:**

Result: Risk of serious damage to eyes.

Remarks: No data available

**69-72-7:**

Species: Rabbit

Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation****Components:**

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**68609-08-5:**

Remarks: No data available

**1477-55-0:**

Test Type: lymph node assay

Species: Mouse

Result: May cause sensitisation by skin contact.

#### Germ cell mutagenicity

**Components:**

**68609-08-5:**

Germ cell mutagenicity - Assessment : mutagenicity classification is not possible

**1477-55-0:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### Carcinogenicity

**Components:**

**68609-08-5:**

Carcinogenicity - Assessment : carcinogenicity classification is not possible

**1477-55-0:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

#### Reproductive toxicity

**Components:**

**68609-08-5:**

Reproductive toxicity - Assessment : reproduction classification is not possible

Teratogenicity - Assessment : teratogenicity classification is not possible

**1477-55-0:**

Teratogenicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

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**Aspiration toxicity****Components:****68609-08-5:**

No aspiration toxicity classification

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****68609-08-5:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

**1477-55-0:**Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 87.6 mg/l  
Exposure time: 96 h  
Test Type: semi-static testToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 35.1 mg/l  
Exposure time: 48 h  
Test Type: ImmobilizationToxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 20.3 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

Acute aquatic toxicity- Assessment : Harmful to aquatic life.

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

**Persistence and degradability****Components:****68609-08-5:**

Biodegradability : Remarks: Not readily biodegradable.

**100-51-6:**Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 14 d**1477-55-0:**Biodegradability : aerobic  
Inoculum: activated sludge  
Biodegradation: 49 %

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Exposure time: 28 d  
Remarks: Not readily biodegradable.

**69-72-7:**

Biodegradability

: ready biodegradability  
Inoculum: Activated sludge, domestic, non-adapted  
Result: Inherently biodegradable.  
Biodegradation: > 90 %  
Exposure time: 4 d

**Bioaccumulative potential****Components:****100-51-6:**

Bioaccumulation

: Bioconcentration factor (BCF): 1.37

**69-72-7:**

Bioaccumulation

: Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues

: Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging

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

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**SECTION 14. TRANSPORT INFORMATION****DOT (Department of Transportation):**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., (CYCLOHEXANEMETHANAMINE, 5-AMINO-1,3,3-TRIMETHYL-, REACTION PRODUCTS WITH BISPHENOL A DIGLYCIDYL ETHER HOMOPOLYMER, 1,3-BENZENEDIMETHANAMINE), 8, II

**MX-DG (Mexico Road Transportation):**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., (CYCLOHEXANEMETHANAMINE, 5-AMINO-1,3,3-TRIMETHYL-, REACTION PRODUCTS WITH BISPHENOL A DIGLYCIDYL ETHER HOMOPOLYMER, 1,3-BENZENEDIMETHANAMINE), 8, II

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

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., (CYCLOHEXANEMETHANAMINE, 5-AMINO-1,3,3-TRIMETHYL-, REACTION PRODUCTS WITH BISPHENOL A DIGLYCIDYL ETHER HOMOPOLYMER, 1,3-BENZENEDIMETHANAMINE) , 8, II, Flash Point:110 °C(230 °F)

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

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., (CYCLOHEXANEMETHANAMINE, 5-AMINO-1,3,3-TRIMETHYL-, REACTION PRODUCTS WITH BISPHENOL A DIGLYCIDYL ETHER HOMOPOLYMER, 1,3-BENZENEDIMETHANAMINE), 8, II

#### **Special precautions for user**

Not applicable

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## SECTION 15. REGULATORY INFORMATION

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

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

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## SECTION 16. OTHER INFORMATION

#### **Further information**

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 Product Compliance Department (55 1107 0170) [SDSLA@univarsolutions.com](mailto:SDSLA@univarsolutions.com).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **Key or legend to abbreviations and acronyms used in the safety data sheet**

|       |                                              |      |                 |
|-------|----------------------------------------------|------|-----------------|
| ACGIH | American Conference of Government Industrial | LD50 | Lethal Dose 50% |
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|        |                                                           |       |                                                         |
|--------|-----------------------------------------------------------|-------|---------------------------------------------------------|
| AICS   | Hygienists<br>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                                           | UVCB  | Unknown or Varia-                                       |

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|      |                       |                      |                                                                                |
|------|-----------------------|----------------------|--------------------------------------------------------------------------------|
|      | Chemical Inventory    |                      | ble Compositon,<br>Complex Reaction<br>Products, and Bio-<br>logical Materials |
| <=   | Less Than or Equal To | WHMIS                | Workplace Hazardous Materials<br>Information System                            |
| LC50 |                       | Lethal Concentration | 50%                                                                            |