

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Metal bonding 60 min. black - 220ml A-component  
Product code : PLI 50 A

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Chemicar Europe NV  
Baarbeek 2  
2070 Zwijndrecht  
T +32 (0) 3 234 87 80 - F +32 (0) 3 234 87 89  
[info@chemicar.eu](mailto:info@chemicar.eu)

#### 1.4. Emergency telephone number

Emergency number : +32 (0) 3 760 08 09

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|   |      |
|---|------|
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |
| Full text of H statements : see section 16                        |      |

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Contains :

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700); 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexaan

Hazard statements (CLP) :

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.

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|                                |  |
|--------------------------------|--|
| Precautionary statements (CLP) | : P261 - Avoid breathing vapours, gas, mist, dust, fume, spray.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention. |
| EUH-statements                 | : EUH205 - Contains epoxy constituents. May produce an allergic reaction.  |

### Scandinavian countries regulation

Denmark

MAL code : 1-5

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                            |
|--|---|---------|--|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700) | (CAS-No.) 25068-38-6<br>(EC-No.) 500-033-5<br>(EC Index-No.) 603-074-00-8 | 50 – 60 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| GLASS  | (CAS-No.) 65997-17-3<br>(EC-No.) 266-046-0                                | 10 – 15 | Not classified   |
| 1,4-bis[(2,3-epoxypropoxy)methyl]cyclohexaan   | (CAS-No.) 14228-73-0<br>(EC-No.) 238-098-4                                | 10 – 15 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |
| GLYCIDOXYPROPYL TRIMETHOXYSILANE   | (CAS-No.) 2530-83-8<br>(EC-No.) 219-784-2                                 | 1 – 2.5 | Not classified   |

### Specific concentration limits:

| Name   | Product identifier  | Specific concentration limits   |
|--|---|---|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700) | (CAS-No.) 25068-38-6<br>(EC-No.) 500-033-5<br>(EC Index-No.) 603-074-00-8 | ( 5 $\leq$ C < 100) Eye Irrit. 2, H319<br>( 5 $\leq$ C < 100) Skin Irrit. 2, H315 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : If you feel unwell, seek medical advice (show the label where possible). Move the affected person away from the contaminated area and into the fresh air. Keep victim under observation. |
| First-aid measures after inhalation   | : If unconscious, place in the recovery position and seek medical advice.  |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse with plenty of water. Wash contaminated clothing before reuse.   |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Contact lenses should be removed.  |
| First-aid measures after ingestion    | : Do not give milk. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person.         |

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### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : Ingestion may cause nausea, vomiting and diarrhea. May cause respiratory irritation. Irritation to throat. May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.  |

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : ABC-powder. carbon dioxide (CO <sub>2</sub> ). Dry powder. Water fog. Foam. |
| Unsuitable extinguishing media | : Strong water jet.   |

### 5.2. Special hazards arising from the substance or mixture

|  |  |
|--|--|
| Hazardous decomposition products in case of fire | : carbon dioxide (CO <sub>2</sub> ). carbon monoxide. Acrid fumes of acids. Formaldehyde. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO <sub>x</sub> ). phenol; carbolic acid; monohydroxybenzene; phenylalcohol. Silicon oxide. Hydrocarbon. |
|--|--|

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Wear recommended personal protective equipment. Personal protective equipment. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. |
|--------------------------------|--|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Protective equipment | : Use personal protective equipment as required. |
| Emergency procedures | : Evacuate area.                                 |

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : Take up liquid spill into inert absorbent material. Shovel or sweep up and put in a closed container for disposal. |
|-------------------------|--|

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Do not breathe vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke in areas where product is used.                 |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. |

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### 7.2. Conditions for safe storage, including any incompatibilities

|                     |  |
|---------------------|--|
| Storage conditions  | : Store in a well-ventilated place. Keep container tightly closed.   |
| Storage area        | : Keep cool. Protect from sunlight. Store in a well-ventilated place.  |
| Packaging materials | : Keep only in the original container in a cool, well-ventilated place away from combustible materials. Containers which are opened should be properly resealed and kept upright to prevent leakage. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure adequate ventilation.

| Hand protection: |                                       |            |                |             |          |
|------------------|---------------------------------------|------------|----------------|-------------|----------|
| Type             | Material                              | Permeation | Thickness (mm) | Penetration | Standard |
|                  | Nitrile rubber (NBR),<br>Butyl rubber |            |                |             |          |

#### Eye protection:

Safety glasses with side shields. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

| Type           | Use           | Characteristics | Standard |
|----------------|---------------|-----------------|----------|
| Safety glasses | Droplet, Dust |                 |          |

#### Skin and body protection:

Protective shoes

#### Respiratory protection:

Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV. In case of inadequate ventilation wear respiratory protection.

#### Other information:

Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                              |
|--|------------------------------|
| Physical state                             | : No data available          |
| Appearance                                 | : Colorless, viscous liquid. |
| Colour                                     | : Black.                     |
| Odour                                      | : No data available          |
| Odour threshold                            | : No data available          |
| pH   | : No data available          |
| Relative evaporation rate (butylacetate=1) | : No data available          |

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|   |                                     |
|---|-------------------------------------|
| Melting point                                   | : No data available                 |
| Freezing point                                  | : No data available                 |
| Boiling point                                   | : > 150 °C                          |
| Flash point                                     | : > 99 °C                           |
| Auto-ignition temperature                       | : No data available                 |
| Decomposition temperature                       | : No data available                 |
| Flammability (solid, gas)                       | : No data available                 |
| Vapour pressure                                 | : < 0.1 hPa                         |
| Relative vapour density at 20 °C                | : No data available                 |
| Relative density                                | : 1.089 (20°C)                      |
| Density   | : 1.089 g/cm <sup>3</sup> (20°C)    |
| Solubility                                      | : Moderately soluble in water.      |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                 |
| Viscosity, kinematic                            | : > 10000 mm <sup>2</sup> /s (40°C) |
| Viscosity, dynamic                              | : No data available                 |
| Explosive properties                            | : No data available                 |
| Oxidising properties                            | : No data available                 |
| Explosive limits                                | : No data available                 |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Store away from heat. Do not allow water (or moist air) contact with this material.

### 10.5. Incompatible materials

Acids. Amines. Strong bases. Oxidizing agents and bases. Peroxides. water.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Hydrocarbon. Methanol. phenol; carboic acid; monohydroxybenzene; phenylalcohol. Polymers.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Not classified                       |
| Acute toxicity (dermal)           | : Not classified                       |
| Acute toxicity (inhalation)       | : Not classified                       |
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye irritation.       |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |
| Reproductive toxicity             | : Not classified                       |

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STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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Viscosity, kinematic > 10000 mm<sup>2</sup>/s (40°C)

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations. This material and its container must be disposed of in a safe way, and as per local legislation.

Waste treatment methods : Do not burn, or use a cutting torch on the empty drum. Do not re-use empty containers.

## SECTION 14: Transport information



In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG           | IATA           | ADN   |
|---|----------------|----------------|---|
| <b>14.1. UN number</b>                              |                |                |   |
| UN 3082   | Not applicable | Not applicable | UN 3082   |
| <b>14.2. UN proper shipping name</b>                |                |                |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Not applicable | Not applicable | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |

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| Transport document description  |                |                |   |
|---|----------------|----------------|---|
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-)          | Not applicable | Not applicable | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III                 |
| 14.3. Transport hazard class(es)  |                |                |   |
| 9   | Not applicable | Not applicable | 9   |
|  | Not applicable | Not applicable |  |
| 14.4. Packing group   |                |                |   |
| III   | Not applicable | Not applicable | III   |
| 14.5. Environmental hazards   |                |                |   |
| Dangerous for the environment :<br>Yes  | Not applicable | Not applicable | Dangerous for the environment :<br>Yes  |
| No supplementary information available  |                |                |   |

### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)   | : M6  |
| Special provisions (ADR)  | : 274, 335, 375, 601  |
| Limited quantities (ADR)  | : 5l  |
| Excepted quantities (ADR)   | : E1  |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001   |
| Special packing provisions (ADR)  | : PP1   |
| Mixed packing provisions (ADR)  | : MP19  |
| Portable tank and bulk container instructions (ADR)                     | : T4  |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29   |
| Tank code (ADR)   | : LGBV  |
| Vehicle for tank carriage   | : AT  |
| Transport category (ADR)  | : 3   |
| Special provisions for carriage - Packages (ADR)                        | : V12   |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13  |
| Hazard identification number (Kemler No.)                               | : 90  |
| Orange plates   | :  |

Tunnel restriction code (ADR) : -

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : M6                 |
| Special provisions (ADN)          | : 274, 335, 375, 601 |
| Limited quantities (ADN)          | : 5 L                |
| Excepted quantities (ADN)         | : E1                 |
| Carriage permitted (ADN)          | : T                  |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

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### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
People who have eczema or allergy to epoxy, may not work with the material  
The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Aquatic Chronic 2                   | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                    |
| 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.                  |
| H412                                | Harmful to aquatic life with long lasting effects.                |
| EUH205                              | Contains epoxy constituents. May produce an allergic reaction.    |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.