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

- 1.1 Product identifier
- Trade name: M 390 RESIN (A)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the mixture Epoxy resin
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  AXSON FRANCE
  15 Rue de l'Equerre - F-95310 SAINT OUEN L'AUMONE
  Tél.+33 (0)1 34 40 34 60
- Further information obtainable from: DPT HSE - +33 (0)1 34 40 34 60 - safety@axson.com
- 1.4 Emergency telephone number: ORFILA : +33 (0)1 45 42 59 59

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  Classification according to Regulation (EC) No 1272/2008
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2 H319 Causes serious eye irritation.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements
  Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
  Hazard pictograms

  GHS07  GHS09

- Signal word Warning

  Hazard-determining components of labelling:
  reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight \( \leq \) 700)
  bisphenol-F-epichlorhydrine ; epoxy resins (molecular weight \( \leq \) 700)
  1,6-Hexanedioldiglycidyl ether

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

- Precautionary statements
  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  P280 Wear protective gloves.
  P280 Wear eye protection / face protection.
  P273 Avoid release to the environment.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)
Trade name: M 390 RESIN (A)

· Additional information:
  EUH205 Contains epoxy constituents. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 25068-38-6</th>
<th>reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)</th>
<th>25-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLP: 500-033-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119456619-26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 28064-14-4</td>
<td>bisphenol-F-epichlorhydrine ; epoxy resins (molecular weight ≤ 700)</td>
<td>10-25%</td>
</tr>
<tr>
<td>NLP: 500-006-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119454392-40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 16096-31-4</td>
<td>1,6-Hexanedioldiglycidyl ether</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>EINECS: 240-260-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119463471-41</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· After inhalation:
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
· After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing:
  Do not induce vomiting; call for medical help immediately.
· 4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.
· 4.3 Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· For safety reasons unsuitable extinguishing agents: Water with full jet
· 5.2 Special hazards arising from the substance or mixture
  In case of fire, the following can be released:
  Carbon monoxide (CO)
  Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
  Hydrogen chloride (HCl)
· 5.3 Advice for firefighters
· Protective equipment:
  Wear fully protective suit.
  Wear self-contained respiratory protective device.
· Additional information
  Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispoze of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **6.4 Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  Ensure good ventilation/exhaustion at the workplace.

- **7.2 Conditions for safe storage, including any incompatibilities**
  - Storage:
    - Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
    - Information about storage in one common storage facility: Store away from foodstuffs.
    - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

- **7.3 Specific end use(s)**
  No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- **8.1 Control parameters**
  Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
  - Personal protective equipment:
    - General protective and hygienic measures:
      - The usual precautionary measures are to be adhered to when handling chemicals.
      - Immediately remove all soiled and contaminated clothing
      - Wash hands before breaks and at the end of work.
      - Avoid contact with the eyes and skin.
    - Respiratory protection: Not necessary if room is well-ventilated.

- **Protection of hands:**
  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)
Trade name: M 390 RESIN (A)

- **Material of gloves**
  Synthetic rubber gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**
  Safety glasses
  Tightly sealed goggles

- **Body protection:** Protective work clothing

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### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  **General Information**
  **Appearance:**
  - **Form:** Pasty
  - **Colour:** Grey
  - **Odour:** Weak, characteristic

- **Change in condition**
  - **Melting point/Melting range:** NA °C
  - **Boiling point/Boiling range:** >200 °C (DIN 53171)

- **Flash point:** >110 °C (ISO 2719)

- **Ignition temperature:** >300 °C (DIN 51 794)

- **Decomposition temperature:** >200 °C (DIN 53171)

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 25 °C:** 1.06 g/cm³ (ISO 1675:1985)

- **Solubility in / Miscibility with**
  - **Water:** Insoluble.
  - **Organic solvents:** Soluble in many organic solvents.

- **9.2 Other information**
  No further relevant information available.

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### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
  No further relevant information available.

- **10.2 Chemical stability**

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

- **10.3 Possibility of hazardous reactions**
  May produce violent reactions with bases and numerous organic substances including alcohols and amines. Exothermic polymerisation.

- **10.4 Conditions to avoid**
  No further relevant information available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>25068-38-6 reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight ( \leq 700 ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>28064-14-4 bisphenol-F-epichlorhydrine ; epoxy resins (molecular weight ( \leq 700 ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
</tbody>
</table>

Primary irritant effect:

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - Carcinogenicity Based on available data, the classification criteria are not met.
  - Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

<table>
<thead>
<tr>
<th>25068-38-6 reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight ( \leq 700 ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 (96h) 1.3 mg / l (fish)</td>
</tr>
<tr>
<td>LC50 (48h) 2.1 mg/l (daphnia)</td>
</tr>
<tr>
<td>LC50 (72h) 11 mg/l (algae)</td>
</tr>
</tbody>
</table>

- 12.2 Persistence and degradability No further relevant information available.
- Other information: The product is not easily biodegradable.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
  - Remark: Toxic for fish
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**
  · **Recommendation**
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
    Dispose of the product by burning in a suitable incinerator or bury in an approved landfield following all applicable local and/or national regulations.

· **European waste catalogue**

  20 01 27 paint, inks, adhesives and resins containing dangerous substances

  · **Uncleaned packaging:**
    · **Recommendation:**
      Empty containers may not be disposed of unless any remaining material adhering to the internal walls has been removed.
      Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN-Number**
  · **ADR, IMDG, IATA** UN3077

· **14.2 UN proper shipping name**
  · **ADR** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (epoxy resins)
  · **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (epoxy resins), MARINE POLLUTANT
  · **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (epoxy resins)

· **14.3 Transport hazard class(es)**
  · **ADR, IMDG, IATA**

  · **Class** 9 Miscellaneous dangerous substances and articles.
  · **Label** 9

· **14.4 Packing group**
  · **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**
  · **Marine pollutant:** Yes
    Symbol (fish and tree)

· **14.6 Special precautions for user**
  · **Danger code (Kemler):** 90
  · **EMS Number:** F-A,S-F

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  · Not applicable.
3.1.3 Transport/Additional information:

- ADR
- Limited quantities (LQ) 5 kg
- Transport category 3
- Tunnel restriction code E
- UN "Model Regulation": UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (epoxy resins), 9, III

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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

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

SECTION 16: Other information

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

- Relevant phrases
  - 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.

- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.