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

- **1.1 Product identifier**

  **Trade name:** *745 DecoWear™ Part A*
  **Application of the substance/the preparation:** Modified Epoxy Resin

- **1.3 Details of the supplier of the Safety Data Sheet**

  **Manufacturer/Supplier:**
  Thermal-Chem Corporation  
  2550 Edgington St  
  Franklin Park, IL 60131 USA  
  Tel (800) 635-3773

- **1.4 Emergency contact:** CHEMTREC® (800) 424-9300

### 2 Hazards identification

#### ***EMERGENCY OVERVIEW***: No Information

**GHS Classification**

- Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1

#### **Signal Word** **Warning**

**GHS HAZARD STATEMENTS**

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>H-Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity, Oral, category 4</td>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Toxicity, Dermal, category 4</td>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Irritation, category 2</td>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Skin Sensitizer, category 1</td>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Eye Irritation, category 2</td>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity, category 2</td>
<td>H341</td>
<td>Suspect of causing genetic defects</td>
</tr>
<tr>
<td>Reproductive Toxicity, category 2</td>
<td>H361</td>
<td>Suspect of damaging fertility of the unborn child</td>
</tr>
<tr>
<td>Skin Corrosion, category 1</td>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
</tbody>
</table>

**GHS PRECAUTIONARY STATEMENTS**

<table>
<thead>
<tr>
<th>P-Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P201</td>
<td>Obtain special instructions before use</td>
</tr>
<tr>
<td>P202</td>
<td>Do not handle until all safety precautions have been read and understood</td>
</tr>
<tr>
<td>P260</td>
<td>Do not breathe dust/fume/gas/mist/vapors/spray</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust/fume/gas/mist/vapors/spray</td>
</tr>
<tr>
<td>P264</td>
<td>Wash thoroughly after handling.</td>
</tr>
<tr>
<td>P270</td>
<td>Do no eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td>P271</td>
<td>Use only outdoors or in a well ventilated area</td>
</tr>
<tr>
<td>P272</td>
<td>Contaminated work clothing should not be allowed out of the workplace</td>
</tr>
<tr>
<td>P273</td>
<td>Avoid release to environment</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves/protective clothing/eye protection/face protection</td>
</tr>
<tr>
<td>P301+P310</td>
<td>If SWALLOWED Call a POISON CENTER/doctor/physician immediately</td>
</tr>
<tr>
<td>P301+P303+P331</td>
<td>If SWALLOWED rinse mouth. DO NOT induce vomiting</td>
</tr>
<tr>
<td>P303+P361+P353</td>
<td>If ON SKIN (or hair). Take off immediately all contaminated clothing. Rinse skin with water/shower</td>
</tr>
<tr>
<td>P304+P340</td>
<td>If INHALED. Remove person to fresh air and keep comfortable for breathing</td>
</tr>
</tbody>
</table>

(Cont. on page 2)
A

P305+P351+P338  If IN EYES Rinse cautiously with water to several minutes. Remove contact lenses. If present and easy to do so. Continue rinsing
P308  If exposed or concerned, get medical advice/attention
P312  Call a POISON CENTER/doctor/physician if you feel unwell
P321  Specific treatment (see first aid section)
P330  Rinse mouth
P333+P313  If skin irritation or rash occurs: Get medical advice/attention
P337+P313  If eye irritation persists: Get medical advice/attention
P361+P364  Take off immediately all contaminated clothing and wash it before reuse
P391  Collect spillage
P405  Store locked up
P501  Dispose of contents/container in accordance with local/regional/national/international regulations

Hazard description:
WHMIS-symbols:
No information
Canadian WHMIS Classification:
No information

NFPA ratings (scale 0 - 4)  HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

HEALTH 2  FIRE 1  REACTIVITY 0

3 Composition/Information on Ingredients

3.1 Mixtures
Description: Mixture of substances listed below.

Dangerous components:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A , Epichlorohydrin resin</td>
<td>Xi R21/224 R36</td>
<td>Benzyl alcohol</td>
<td>para-nonylphenol</td>
</tr>
<tr>
<td></td>
<td>R38</td>
<td></td>
<td>C R35; Xn R21/22 Xn R61/63</td>
</tr>
<tr>
<td></td>
<td>Skin Irr. 2, H315; Skin Sens. 1, H317</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
<td>Acute Tox. 4, H302; Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 3, H302</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
<td>Repr. 2; H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>79%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5%</td>
</tr>
</tbody>
</table>
4 First aid measures

4.1 Description of first aid measures

General information:
Take affected persons out of danger area and lay down.

After inhalation:
Rescuers should put on appropriate gear. Remove from areas of exposure. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

After skin contact:
Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

After eye contact:
Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering lids. Get medical attention promptly.

After swallowing:
If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Acute: This material may cause irritation to the respiratory tract and skin and even burns. Product may cause an allergic skin reaction, and even dermatitis with long term exposure.

Chronic:
Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis.

Target Organs: Acute: Eye, Skin Chronic: Skin

Hazards:
Pre-existing skin, or eye problems may be aggravated by exposure to this product.

4.3 Indications of any immediate medical attention and special treatment

Treat skin and mucous membrane with antihistamine and corticoid preparations. Monitor circulation. Treat symptoms and reduce over-exposure.

5 Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents:
Carbon Dioxide, Dry Chemical, Foam, Water Fog

5.2 Unusual fire and explosion hazards:
Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

5.3 Advice for firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Do not use water jet (frothing possible). Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

Protective equipment:
Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel should be trained for spill response operations.
Remove persons from danger area.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
6.2 Environmental precautions: All work practices must be aimed at eliminating environmental contamination. Do not allow to enter sewers/surface or ground water.

6.3 Steps to be taken in case material is release or spilled:
Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods and material for containment and cleaning up:
Contain spill if safe to do so. using an absorbant liquid binding material (sand, diatomite, acid binders, universal binders, sawdust)
Prevent entry into drains, sewers, and other waterways.
Send for recovery or disposal in suitable receptacles
Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).
Clean the affected are carefully. Suitable cleaners are: Organic solvent

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.

7 Handling and Storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace. As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Remove contaminated clothing immediately. Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Keep away from heat, sparks and flames. Store containers in a cool, well ventilated place. Keep container closed when not in use. Partially filled drums should be blanketed with nitrogen to avoid product being oxidized to benzaldehyde. Good general housekeeping procedures should be followed. Do not eat, drink or smoke while using material.

Information about storage in one common storage facility:
Store away of oxidizing agents
Store away from foodstuffs
Do not store together with acids

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

8 Exposure Controls/Personal Protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan.
Respiratory Protection:
Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member

Protective gloves

Material of gloves
Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada

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

Tightly sealed goggles

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT
Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:
- Form: Viscous liquid
- Color: Clear to light yellow
- Odor: Typical
- Odor threshold: Not determined
- pH: Not determined

Change in condition
- Melting point/Melting range: Undetermined
- Boiling point/Boiling range: 392°F (200°C)

Flash point: 302°F (150°C)

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Self-igniting: Not determined

Danger of explosion: None known, handle as a combustible liquid

Explosion limits:
- Lower: Not determined.
- Upper: Not determined.

(Cont on page 6)
A

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>1.162</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td>3.7 (air=1)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>1.18</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Solvent content</td>
<td>No data available</td>
</tr>
<tr>
<td>Organic solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC (EC)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other information: No further relevant information available

10 Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability: No Information

Conditions to avoid:
Avoid excess heat and sources of ignition.

Thermal Decomposition Products:
Decomposition of this product produces noxious gases such as Carbon Monoxide and Carbon Dioxide may be formed.

10.3 Conditions to avoid:
Avoid contact with moisture and/or water. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with metals. Contact with plastics other than fluorinated polymers or polypropylene should be avoided. Keep away from acids.

10.4 Incompatible materials:
Oxidizing agents and amines. Avoid excess heat and sources of ignition.

10.5 Hazardous decomposition products:
Carbon monoxide
Carbon dioxide

10.6 Hazardous Polymerization: No information

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:
LD/LC50 values relevant for classification:
LD50 Acute Dermal 2,000 mg/kg
LD50 Acute Oral 1,300 mg/kg

Primary irritant effect:
Inhalation: May be irritating to the respiratory system.

Skin Contact: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material. Harmful if absorbed through skin.

Eye Contact: Causes serious irritation to eyes. Symptoms may include stinging, tearing, redness and swelling.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal tract irritation.

Sensitization:
Sensitization possible through skin contact.

Sensitizing effect through inhalation is possible by prolonged exposure.

Additional toxicological information:
Irritant
Harmful

Reproductive Toxicity Information: No information concerning the effects of this product and its components on the human reproductive system.
### 12 Ecological Information

**ECOLOGICAL INFORMATION:** No Information

### 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. Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**RCRA Waste Code:** None listed.

**EU Waste Code:** None listed

### 14 Transport Information

**DOT Proper Shipping**

- **Name:** Environmentally hazardous substances, liquid, n.o.s. (nonylphenol)
- **DOT Hazard Class:** 9
- **DOT UN/NA Number:** UN3082
- **Packing Group:** III
- **Hazard SubClass:** No Information
- **Resp. Guide Page:** 171

### 15 Regulatory Information

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

**United States (USA)**

**SARA:**

- **Section 355 (extremely hazardous substances):** No components exist in this product
- **Section 313 (Specific toxic chemical listings):** No components exist in this product
- **TSCA (Toxic Substances Control Act):** No components exist in this product

**Proposition 65 (California):**

**Chemicals known to cause cancer or reproductive harm:**

- **Chemicals known to cause cancer:** No components exist in this product
- **Chemicals known to cause reproductive toxicity for females:** No components exist in this product
- **Chemicals known to cause reproductive toxicity for males:** No components exist in this product
- **Chemicals known to cause developmental toxicity:** No components exist in this product
A Carcinogenic Categories

| EPA (Environmental Protection Agency): None of the ingredients are listed. |
| IARC (International Agency for Research on Cancer): None of the ingredients are listed. |
| TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed. |
| NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed. |
| OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. |

New Jerseys Right-To-Know

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this product.

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product are at or greater than 3%.

No PA Right-To-Know components exist in this product.

Canada

| Canadian Domestic Substances List (DSL): All ingredients are listed. |
| Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed |
| Canadian Ingredient Disclosure list (limit 1%): None of the ingredients are listed |

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

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

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H341: Suspect of causing genetic defects.
H361: Suspect of damaging fertility of the unborn child.
H314: Causes severe skin burns and eye damage.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only in well ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED Call a POISON CENTER/doctor/physician immediately.
P301+P330+P331: If SWALLOWED rinse mouth. DO NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED. Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES Rinse cautiously with water to several minutes. Remove contact lenses. If present and easy to do so. Continue rinsing.

(Cont on page 9)
P308: If exposed or concerned, get medical advice/attention
P312: Call a POISON CENTER/doctor/physician if you feel unwell
P321: Specific treatment (see first aid section)
P330: Rinse mouth
P333+P313: If skin irritation or rash occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention
P361+P364: Take off immediately all contaminated clothing and wash it before reuse
P391: Collect spillage
P405: Store locked up
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

Abbreviations and Acronyms
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk of his use of the material for either Component A and/or B or the combination of both components.

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

- **1.1 Product identifier**
  - Trade name: *745 DecoWear™ Part B*

- **1.2 Application of the substance / the preparation:** Epoxy curing agent

- **1.3 Details of the supplier of the Safety Data Sheet**
  - **Manufacturer/Supplier:**
    - Thermal-Chem Corporation
    - 2550 Edgington St
    - Franklin Park, IL 60131 USA
    - Tel (800) 635-3773
  - **Emergency Contact:** CHEMTREC® (800) 424-9300

2 Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    - GHS05 corrosion
      - Skin Corr. 1B; H314: Causes severe skin burns and eye damage.
    - GHS07
      - Acute Tox. 4; H302: Harmful if swallowed.
      - Skin Sens. 1; H317: May cause an allergic skin reaction.
      - STOT SE 3; H335: May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - C; Corrosive
    - R34: Causes burns.
  - Xn; Harmful
    - R20/22: Harmful by inhalation and if swallowed.
  - Xi; Irritant
    - R37: Irritating to respiratory system.
  - Xi; Sensitizing
    - R43: May cause sensitization by skin contact.

- **Information concerning particular hazards for human and environment:**
  - The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Cont. on page 2)
Trade name: 745 DecoWear™ Part B

(Cont. from page 1)

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms

GHS05 GHS07

Signal word

Danger

Hazard-determining components of labeling:

- Benzyl alcohol
- 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Hazard statements

- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine. May produce an allergic reaction.

Precautionary statements

- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301: Immediately call a POISON CENTER or doctor/physician.
- P321: Specific treatment (see on this label).
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
- P363: Wash contaminated clothing before reuse.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

(Cont. on page 3)
Trade name: 745 DecoWear™ Part B

- P330: Rinse mouth.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P405: Store locked up.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard description:**

- WHMIS-symbols:
  - D1B - Toxic material causing immediate and serious toxic effects
  - D2B - Toxic material causing other toxic effects
  - E - Corrosive material

- NFPA ratings (scale 0 - 4)
  - Health = 3
  - Fire = 1
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - Health = 3
  - Fire = 1
  - Reactivity = 0

- HMIS Long Term Health Hazard Substances
  - None of the ingredients is listed.

**2.3 Other hazards**

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

**3 Composition/information on ingredients**

- **3.2 Mixtures**

  - Description: Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

<table>
<thead>
<tr>
<th>CAS: 100-51-6</th>
<th>Benzyl alcohol</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 202-859-9</td>
<td>XnR20/22</td>
</tr>
<tr>
<td>Index number: 603-057-00-5</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
</tr>
</tbody>
</table>

30-60%
## 4 First aid measures

### 4.1 Description of first aid measures

**General information:**

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**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.

Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

**After eye contact:**

Protect unharmed eye.

Rinse opened eye for several minutes under running water.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

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

Coughing

Dizziness

Breathing difficulty

Headache
Gastric or intestinal disorders
Allergic reactions

**Hazard**
Condition may deteriorate with alcohol consumption.
Danger of impaired breathing.
Danger of pulmonary edema.

4.3 *Indication of any immediate medical attention and special treatment needed*
If swallowed, gastric irrigation with added, activated carbon.
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary edema.
Treat skin and mucous membrane with antihistamine and corticoid preparations.

**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.

5.2 *Special hazards arising from the substance or mixture*
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 *Advice for firefighters*

Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

**6 Accidental release measures**

6.1 *Personal precautions, protective equipment and emergency procedures*
Use respiratory protective device against the effects of fumes/dust/aerosol.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.

6.2 *Environmental precautions:*
Dilute with plenty of water.
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).
Dispose contaminated material as waste according to item 13.
Clean the affected area carefully; suitable cleaners are:
Warm water and cleansing agent

6.4 *Reference to other sections*
See Section 7 for information on safe handling.
7 Handling and storage

7.1 Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Keep receptacles tightly sealed.
- Take note of emission threshold.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities
- **Storage:**
  - Requirements to be met by storerooms and receptacles:
    - Store in a cool location.
    - Provide ventilation for receptacles.
  - **Information about storage in one common storage facility:**
    - Store away from foodstuffs.
    - Store away from oxidizing agents.
  - **Further information about storage conditions:**
    - Store in cool, dry conditions in well sealed receptacles.
    - Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)** No further relevant information available.

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:**
  - 100-51-6 Benzyl alcohol
    - WEEL (USA) | 10 ppm
  - **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing
      - Wash hands before breaks and at the end of work.
      - Avoid contact with the eyes and skin.
      - Do not inhale gases / fumes / aerosols.
    - **Respiratory protection:**
      - Use suitable respiratory protective device when aerosol or mist is formed.
      - Use suitable respiratory protective device when high concentrations are present.
· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Contact lenses should not be worn.

Safety glasses

Goggles recommended during refilling

· Body protection: Protective work clothing

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

  Form: Liquid
  Color: Light yellow
  Odor: Ammonia-like
  Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: > 205°C (> 401 °F)

· Flash point: 96°C (203 °F)

· Flammability(solid, gaseous): Not applicable.

· Ignition temperature: 435°C (815 °F)
10 Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
10.3 Possibility of hazardous reactions
10.4 Conditions to avoid
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products:
Ammonia
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
### 11 Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity:**

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Benzyl alcohol</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td><strong>3-aminoethyl-3,5,5-trimethylcyclohexylamine</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
</tbody>
</table>

**Primary irritant effect:**

- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- **Sensitization:**
  Sensitizing effect through inhalation is possible by prolonged exposure.
  Sensitization possible through skin contact.
- **Additional toxicological information:**
  Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  Harmful
  Corrosive
  Irritant
  Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
  In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with the danger of central respiratory arrest.

### 12 Ecological information

#### 12.1 Toxicity

- **Aquatic toxicity:** The material is harmful to the environment.

#### 12.2 Persistence and degradability

The product is partly biodegradable. Significant residuals remain.

#### 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

#### 12.4 Mobility in soil

No further relevant information available.

#### Additional ecological information:

- **General notes:**
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  Must not reach sewage water or drainage ditch undiluted or un-neutralized.

#### 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
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- **vPvB**: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**
    - Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
    - Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
    - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - **Uncleaned packaging:**
    - **Recommendation**: Disposal must be made according to official regulations.
    - **Recommended cleansing agents**: Water, if necessary together with cleansing agents.

### 14 Transport information

- **14.1 UN-Number**
  - DOT, ADR, IMDG, IATA: UN1760

- **14.2 UN proper shipping name**
  - DOT, IMDG, IATA: Corrosive Liquid, N.O.S. (Isophoronediamine)
  - ADR: 1760 Corrosive Liquid, N.O.S. (Isophoronediamine)

- **14.3 Transport hazard class(es)**
  - DOT
    - **Class**: 8 Corrosive substances.
    - **Label**: 8
  - ADR
    - **Class**: 8 (C9) Corrosive substances.
    - **Label**: 8
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Tradename: 745 DecoWear™ Part B

- IMDG, IATA
  - Class
  - Label: 8 Corrosive substances.
  - 14.4 Packing group
  - DOT, ADR, IMDG, IATA: III
  - 14.5 Environmental hazards:
  - Marine pollutant: No
  - 14.6 Special precautions for user
  - Danger code (Kemler): Warning: Corrosive substances.
  - EMS Number:
  - Segregation groups: Alkalis
  - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
  - Transport/Additional information:
    - ADR
    - Tunnel restriction code: E
    - UN "Model Regulation": UN1760, Corrosive Liquid, N.O.S. (Isophoronediamine), 8, III

15 Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - United States (USA)
  - SARA
    - Section 355 (extremely hazardous substances):
      - None of the ingredients is listed.
    - Section 313 (Specific toxic chemical listings):
      - None of the ingredients is listed.
    - TSCA (Toxic Substances Control Act):
      - All ingredients are listed.
      - Proposition 65 (California):
    - Chemicals known to cause cancer:
      - 106-89-8 1-chloro-2,3-epoxypropane
    - Chemicals known to cause reproductive toxicity for females:
      - None of the ingredients is listed.
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- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
  106-89-8 1-chloro-2,3-epoxypropane
- Carcinogenic Categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.
- Canada
  - Canadian Domestic Substances List (DSL)
    All ingredients are listed.
  - Canadian Ingredient Disclosure list (limit 0.1%)
    69-72-7 Salicylic acid
    106-89-8 1-chloro-2,3-epoxypropane
  - Canadian Ingredient Disclosure list (limit 1%)
    100-51-6 Benzyl alcohol
    2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine
  - 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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
  H302: Harmful if swallowed.
  H312: Harmful in contact with skin.
  H314: Causes severe skin burns and eye damage.
  H315: Causes skin irritation.
  H317: May cause an allergic skin reaction.
  H318: Causes serious eye damage.
  H319: Causes serious eye irritation.
  H332: Harmful if inhaled.
  H335: May cause respiratory irritation.
  H412: Harmful to aquatic life with long lasting effects.
  R20/22: Harmful by inhalation and if swallowed.
  R21/22: Harmful in contact with skin and if swallowed.

(Cont. on page 13)
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R22: Harmful if swallowed.
R34: Causes burns.
R36/37/38: Irritating to eyes, respiratory system and skin.
R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.
R43: May cause sensitization by skin contact.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk of his use of the material for either Component A and/or B or the combination of both components.