1. IDENTIFICATION

Product identifier
Mixture identification:
  Trade name: PLANISEAL MVR PART A

Recommended use of the chemical and restrictions on use
Recommended use: Flooring Adhesive
Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party
Company: MAPEI CORP. (USA and Puerto Rico)
  1144 East Newport Center Drive
  33442 - Deerfield Beach - FL - USA
  Phone: 954-246-8888

Emergency 24 hour numbers:
(USA) CHEMTREC 1-800-424-9300
(Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Skin Irrit. 2   Causes skin irritation.
Eye Irrit. 2A  Causes serious eye irritation.
Skin Sens. 1   May cause an allergic skin reaction.
Aquatic Chronic 2   Toxic to aquatic life with long lasting effects.

Label elements

Symbols:

Warning

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

P261.B  Avoid breathing dust.
P264.2   Wash skin thoroughly after handling.
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.
P302+P352.A IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321.A Specific treatment (see supplementary instructions on this label)
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
Ingredient(s) with unknown acute toxicity:

None

Hazard not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

<table>
<thead>
<tr>
<th>List of components</th>
<th>Quantity</th>
<th>Name</th>
<th>Ident. Numb.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-60 %</td>
<td>Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight &lt;=700)</td>
<td>CAS:25068-38-6</td>
<td>Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EC:500-033-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Index:603-074-00-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-30 %</td>
<td>Alkyl epoxy resin</td>
<td>CAS:68609-97-2</td>
<td>Skin Irrit. 2, H315; Skin Sens. 1, H317</td>
<td></td>
</tr>
<tr>
<td>10-20 %</td>
<td>Phenol, polymer with formaldehyde, glycidyl ether; molecular weight &lt;= 700</td>
<td>CAS:28064-14-4</td>
<td>Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td>5-10 %</td>
<td>Diisopropynaphthalene</td>
<td>CAS:38640-62-9</td>
<td>Asp. Tox. 1, H304; Aquatic Chronic 4, H413</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:
Water,
Carbon dioxide (CO2).

Unsuitable extinguishing media:
None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Don’t use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren’t any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

- Storage temperature: N.A.
- Incompatible materials: None in particular.

Instructions as regards storage premises:

- Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

- No Data Available

Appropriate engineering controls: N.A.

Individual protection measures

Eye protection:

- Use close fitting safety goggles, don’t use eye lens.

Protection for skin:

- Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

- Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

- N.A.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance and colour: Paste cream
- Odour: like: Hydrocarbons, aromatic
- Odour threshold: N.A.
- pH: 9.00
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: N.A.
- Flash point: >100 °C (212 °F)
- Evaporation rate: N.A.
- Upper/lower flammability or explosive limits: N.A.
- Vapour density: N.A.
- Vapour pressure: N.A.
- Relative density: N.A.
- Solubility in water: N.A.
- Solubility in oil: N.A.
- Partition coefficient (n-octanol/water): N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.
Solid/gas flammability: N.A.

Other information
Substance Groups relevant properties N.A.
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions

Chemical stability
Data not Available.

Possibility of hazardous reactions
None.

Conditions to avoid
Stable under normal conditions.

Incompatible materials
None in particular.

Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight &lt;=700)</td>
<td>LD50 Oral Rat 11400mg/kg</td>
</tr>
<tr>
<td>Phenol, polymer with formaldehyde, glycidyl ether; molecular weight &lt;= 700</td>
<td>a) acute toxicity LD50 Skin Rabbit &gt; 5000,00000mg/kg</td>
</tr>
<tr>
<td>Diisopropynaphthalene</td>
<td>a) acute toxicity</td>
</tr>
<tr>
<td></td>
<td>LD50 Skin Rat &gt; 4500mg/kg</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Rat &gt; 5,64000mg/l 4h</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral Rat = 3900mg/kg</td>
</tr>
</tbody>
</table>

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity
b) skin corrosion/irritation
c) serious eye damage/irritation
d) respiratory or skin sensitisation
e) germ cell mutagenicity
f) carcinogenicity
g) reproductive toxicity
h) STOT-single exposure
i) STOT-repeated exposure
j) aspiration hazard

Substance(s) listed on the IARC Monographs:
None

Substance(s) listed as OSHA Carcinogen(s):
None

Substance(s) listed as NIOSH Carcinogen(s):
None

Substance(s) listed on the NTP report on Carcinogens:

Date 6/25/2015  Production Name  PLANISEAL MVR PART A
12. ECOLOGICAL INFORMATION
Toxicity
Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
<th>Ident. Numb.</th>
<th>Ecotox Infos</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-10 %</td>
<td>Diisopropynaphthalene</td>
<td>CAS: 38640-62-9</td>
<td>LC50 a) Aquatic acute toxicity Fish Cyprinus carpio&gt; 1000mg/L 96h</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LC50 a) Aquatic acute toxicity Fish Oryzias latipes&gt; 1000mg/L 96h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N.A.</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
N.A.

Bioaccumulative potential
N.A.

Mobility in soil
N.A.

Other adverse effects
N.A.

13. DISPOSAL CONSIDERATIONS
Waste treatment methods
Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION
UN number
- ADR-UN number: 3082
- DOT-UN Number: UN3082
- IATA-Un number: 3082
- IMDG-Un number: 3082

UN proper shipping name
- ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) - Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700)
- DOT- Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) - Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700)
- IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) - Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700)
- IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) - Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700)

Transport hazard class(es)
- ADR-Class: 9
- DOT-Hazard Class: 9
- IATA-Class: 9
- IMDG-Class: 9

Packing group
- ADR-Packing Group: III
- DOT-Packing group: III
- IATA-Packing group: III
- IMDG-Packing group: III

Environmental hazards
- Marine pollutant: Yes
- Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

Special precautions
Department of Transportation (DOT): None
DOT-Special Provision(s): 8, 146, 173, 335, IB3, T4, TP1
DOT-Label(s): 9
DOT-Symbol: N/A
DOT-Cargo Aircraft: N/A
DOT-Passenger Aircraft: N/A
DOT-Bulk: N/A
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):
ADR exempt: No
ADR-Label: 9
ADR-Hazard identification number: 90
ADR-Tunnel Restriction Code: 3 (E)

Air (IATA):
IATA-Passenger Aircraft: 964
IATA-Cargo Aircraft: 964
IATA-Label: 9
IATA-Subrisk: -
IATA-Erg: 9L
IATA-Special Provisions: A97 A158

Sea (IMDG):
IMDG-Stowage Code: Category A
IMDG-Stowage Note: -
IMDG-Subrisk: -
IMDG-Special Provisions: 274 335
IMDG-Page: N/A
IMDG-Label: 9
IMDG-EMS: F-A, S-F
IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations
TSCA - Toxic Substances Control Act
TSCA inventory:
All the components are listed on the TSCA inventory

TSCA listed substances:
- Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) is listed in TSCA Section 8b
- Alkyl epoxy resin is listed in TSCA Section 8b
- Phenol, polymer with formaldehyde, glycidyl ether; molecular weight <= 700 is listed in TSCA Section 8b
- Disisopropylnaphthalene is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act
Section 302 - Extremely Hazardous Substances:
no substances listed

Section 304 - Hazardous substances:
no substances listed

Section 313 - Toxic chemical list:
no substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
Substance(s) listed under CERCLA:
no substances listed

CAA - Clean Air Act
CAA listed substances:
CWA - Clean Water Act
CWA listed substances:
no substances listed

USA - State specific regulations

California Proposition 65
Substance(s) listed under California Proposition 65:
no substances listed

Massachusetts Right to know
Substance(s) listed under Massachusetts Right to know:
no substances listed

Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
no substances listed

New Jersey Right to know
Substance(s) listed under New Jersey Right to know:
no substances listed

16. OTHER INFORMATION
Safety Data Sheet dated: 5/26/2015 - version 1
Product code: 2813

Additional classification information

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life.</td>
</tr>
</tbody>
</table>

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
1. IDENTIFICATION

Product identifier
Mixture identification:
Trade name: PLANISEAL MVR PART B

Recommended use of the chemical and restrictions on use
Recommended use: Moisture Vapor Barrier
Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party
Company: MAPEI CORP. (USA and Puerto Rico)
1144 East Newport Center Drive
33442 - Deerfield Beach - FL - USA
Phone: 954-246-8888

Emergency 24 hour numbers:
(USA) CHEMTREC 1-800-424-9300
(Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Classification of the chemical
Acute Tox. 4 Harmful if swallowed.
Skin Corr. 1A Causes severe skin burns and eye damage.
Eye Dam. 1 Causes serious eye damage.
Skin Sens. 1A May cause an allergic skin reaction.
STOT RE 2 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Label elements

Symbols:

Code Description
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373.G May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
H412 Harmful to aquatic life with long lasting effects.

Code Description
P260.1 Do not breathe mist/vapours/spray.
P264.1 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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+P312.A IF SWALLOWED: Call a POISON CENTER if you feel unwell.
If swallowed: rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

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.

Get medical advice/attention if you feel unwell.

Specific treatment (see supplementary instructions on this label)

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

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER.

Get medical advice/attention if you feel unwell.

Specific treatment (see supplementary instructions on this label)

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

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with applicable regulations.

None

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Name</th>
<th>Ident. Numb.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-40%</td>
<td>Isophorone diamine</td>
<td>CAS:2855-13-2</td>
<td>Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H302; Acute Tox. 4, H312</td>
</tr>
<tr>
<td>20-30%</td>
<td>Benzyl alcohol</td>
<td>CAS:100-51-6</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332</td>
</tr>
<tr>
<td>10-20%</td>
<td>2,4,6-Tri(dimethylaminomethyl)phenol</td>
<td>CAS:90-72-2</td>
<td>Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>5-10%</td>
<td>Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight &lt;=700)</td>
<td>CAS:25068-38-6</td>
<td>Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>5-10%</td>
<td>1,5-Pentanediamine, 2-methyl-</td>
<td>CAS:15520-10-2</td>
<td>Acute Tox. 4, H332; Skin Corr. 1B, H314; STOT RE 2, H373; Acute Tox. 4, H302; Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>5-10%</td>
<td>Epoxy curing agent</td>
<td>CAS:135108-88-2</td>
<td>Acute Tox. 4, H302; Skin Corr. 1B, H314</td>
</tr>
<tr>
<td>1-5%</td>
<td>Bis[(dimethylamino)methyl]phenol</td>
<td>CAS:71074-89-0</td>
<td>Skin Corr. 1B, H314</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media:
- Water.
- Carbon dioxide (CO2).

Unsuitable extinguishing media:
- None in particular.

Specific hazards arising from the chemical
- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters
- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
- Wear personal protection equipment.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- See protective measures under point 7 and 8.

Methods and material for containment and cleaning up
- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling
- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Use localized ventilation system.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities
- Storage temperature: N.A.
- Incompatible materials:
  - None in particular.
- Instructions as regards storage premises:
  - Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
- No Data Available

Appropriate engineering controls: N.A.

Individual protection measures
- Eye protection:
  - Use close fitting safety goggles, don't use eye lens.
- Protection for skin:
  - Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
- Protection for hands:
  - Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
- Respiratory protection:
  - Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical state: Liquid
Appearance and colour: brown
Odour: like: Amines
Odour threshold: N.A.
pH: 11.00
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
Flash point: >100 °C (212 °F)
Evaporation rate: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: Soluble
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.
Solid/gas flammability: N.A.

Other information
Substance Groups relevant properties N.A.
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.

10. STABILITY AND REACTIVITY
Reactivity
Stable under normal conditions
Chemical stability
Data not Available.
Possibility of hazardous reactions
None.
Conditions to avoid
Stable under normal conditions.
Incompatible materials
None in particular.
Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION
Information on toxicological effects
Toxicological information of the mixture:
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isophorone diamine</td>
<td>a) acute toxicity</td>
<td>LD50 Oral Rat = 1030mg/kg</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>a) acute toxicity</td>
<td>LD50 Skin Rabbit = 2000,00000mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 Inhalation Rat = 8.80000mg/l 4h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 Oral Rat = 1230mg/kg</td>
</tr>
<tr>
<td>2,4, 6-Tri(dimethylaminomethyl)phenol</td>
<td>a) acute toxicity</td>
<td>LD50 Skin Rat = 1280mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 Oral Rat = 1000mg/kg</td>
</tr>
<tr>
<td>Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight &lt;=700)</td>
<td>a) acute toxicity</td>
<td>LD50 Oral Rat 11400mg/kg</td>
</tr>
</tbody>
</table>
If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity  
b) skin corrosion/irritation  
c) serious eye damage/irritation  
d) respiratory or skin sensitisation  
e) germ cell mutagenicity  
f) carcinogenicity  
g) reproductive toxicity  
h) STOT-single exposure  
i) STOT-repeated exposure  
j) aspiration hazard

Substance(s) listed on the IARC Monographs:
None

Substance(s) listed as OSHA Carcinogen(s):
None

Substance(s) listed as NIOSH Carcinogen(s):
None

Substance(s) listed on the NTP report on Carcinogens:
None

12. ECOLOGICAL INFORMATION
Toxicity
Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
<th>Ident. Numb.</th>
<th>Ecotox Infos</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-40 %</td>
<td>Isophorone diamine</td>
<td>CAS: 2855-13-2</td>
<td>EC50 a) Aquatic acute toxicity Daphnia Daphnia magna = 14,60000mg/L 48h EPA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 a) Aquatic acute toxicity Daphnia magna = 42,00000mg/L 24hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus = 37mg/L 72h IUCLID</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 a) Aquatic acute toxicity Algae idus = 110,00000mg/L 96h</td>
</tr>
<tr>
<td>20-30 %</td>
<td>Benzyl alcohol</td>
<td>CAS: 100-51-6</td>
<td>LC50 a) Aquatic acute toxicity Fish Pimephales promelas = 460mg/L 96h EPA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus = 10mg/L 96h EPA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EC50 a) Aquatic acute toxicity Daphnia water flea = 23mg/L 48h</td>
</tr>
</tbody>
</table>

Persistence and degradability
N.A.

Bioaccumulative potential
N.A.

Mobility in soil
N.A.

Other adverse effects
N.A.

13. DISPOSAL CONSIDERATIONS
Waste treatment methods
Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION
UN number
- ADR-UN number: 2735
- DOT-UN Number: UN2735
- IATA-Un number: 2735
- IMDG-Un number: 2735

UN proper shipping name
ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
DOT-Proper Shipping Name: Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s.  
IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  

Transport hazard class(es)  
ADR-Class: 8  
DOT-Hazard Class: 8  
IATA-Class: 8  
IMDG-Class: 8  

Packing group  
ADR-Packing Group: III  
DOT-Packing Group: III  
IATA-Packing Group: III  
IMDG-Packing Group: III  

Environmental hazards  
Marine pollutant: No  
Environmental Pollutant: N.A.  

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
N.A.  

Special precautions  
Department of Transportation (DOT):  
DOT-Special Provision(s): IB3, T7, TP1, TP28  
DOT-Label(s): 8  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A  

Road and Rail (ADR-RID):  
ADR-Label: 8  
ADR-Hazard identification number: 80  
ADR-Tunnel Restriction Code: 3 (E)  

Air (IATA):  
IATA-Passenger Aircraft: 852  
IATA-Cargo Aircraft: 856  
IATA-Label: 8  
IATA-Subrisk: -  
IATA-Erg: 8L  
IATA-Special Provisions: A3 A803  

Sea (IMDG):  
IMDG-Stowage Code: Category A  
IMDG-Stowage Note: "Separated from" acids.  
IMDG-Subrisk: -  
IMDG-Special Provisions: 223 274  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: F-A, S-B  
IMDG-MFAG: N/A  

15. REGULATORY INFORMATION  
USA - Federal regulations  
TSCA - Toxic Substances Control Act  
TSCA inventory:  
All the components are listed on the TSCA inventory  
TSCA listed substances:  
Isophorone diamine is listed in TSCA Section 8b  

Date 6/25/2015  
Production Name PLANISEAL MVR PART B
Benzyl alcohol is listed in TSCA Section 8b
2,4,6-Tr(dimethylaminomethyl)phenol is listed in TSCA Section 8b
Reaction product: Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) is listed in TSCA Section 8b
Epoxy curing agent is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:
no substances listed

Section 304 - Hazardous substances:
no substances listed

Section 313 - Toxic chemical list:
no substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:
no substances listed

CAA - Clean Air Act

CAA listed substances:

Benzyl alcohol is listed in CAA Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

no substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:
no substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:
Benzyl alcohol

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:
Benzyl alcohol

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:
Isophorone diamine

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs &lt;or state all organs affected, if known&gt; through prolonged or repeated exposure &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;.</td>
</tr>
<tr>
<td>H373.G</td>
<td>May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>
Safety Data Sheet dated: 5/26/2015 - version 1
Product code: 2814

Additional classification information

HMIS Health: 3 = Serious
HMIS Health - Is health hazard chronic?: No
HMIS Flammability: 1 = Combustible if heated
HMIS Reactivity: 0 = Minimal
HMIS P.P.E.: Splash goggles, gloves, chemical apron, vapor respirator
NFPA Health: 3 = Serious
NFPA Flammability: 1 = Combustible if heated
NFPA Reactivity: 0 = Minimal
NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer’s responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.