1 Identification

- Product identifier
- Trade name: Rapid Resin Repair - Part A
- Article number: 309087A
- Application of the substance / the mixture

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Dayton® Superior
4226 Kansas Avenue                   Tel.: (866) 329-8724
Kansas City, KS 66106

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 708 741-5970. Collect calls are accepted.

- Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

- Classification of the substance or mixture
  Acute Tox. 4  H332  Harmful if inhaled.
  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2B  H320  Causes eye irritation.
  Resp. Sens. 1  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  Skin Sens. 1B  H317  May cause an allergic skin reaction.
  Carc. 2      H351  Suspected of causing cancer.
  STOT SE 3    H335  May cause respiratory irritation.
  STOT RE 2    H373  May cause damage to organs through prolonged or repeated exposure.
  Aquatic Acute 3  H402  Harmful to aquatic life.
  Aquatic Chronic 3  H412  Harmful to aquatic life with long lasting effects.

- Label elements
  - GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms

  GHS07  GHS08

- Signal word: Danger

  - Hazard-determining components of labeling:
    diphenylmethanediisocyanate, isomers and homologues
    4,4'-methylenediphenyl diisocyanate
  - Hazard statements
    Harmful if inhaled.
    Causes skin and eye irritation.
    May cause allergy or asthma symptoms or breathing difficulties if inhaled.
    May cause an allergic skin reaction.

(Contd. on page 2)
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

**Precautionary statements**
Do not breathe dust/fume/gas/mist/vapors/spray.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system**
- **NFPA ratings (scale 0 - 4)**
  - Health = 2
  - Fire = 1
  - Reactivity = 1
- **HMIS-ratings (scale 0 - 4)**
  - HEALTH
  - Fire = 1
  - Reactivity = 1

**Other hazards**
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**
- 9016-87-9 diphenylmethanediisocyanate, isomers and homologues $\geq 10\% \leq 40\%$
- 101-68-8 4,4'-methylenediphenyl diisocyanate $\geq 10\% \leq 30\%$
- 26447-40-5 methylenediphenyl diisocyanate $\leq 10.0\%$

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

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**
  - Immediately remove any clothing soiled by the product.
  - In the event of persistent symptoms receive medical treatment.
  - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Trade name: Rapid Resin Repair - Part A

- **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.
  Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.

- **After eye contact:**
  Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**
  Seek medical treatment.

- **Information for doctor:**
  Most important symptoms and effects, both acute and delayed: No further relevant information available.
  Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:**
    Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.
    Mouth respiratory protective device.

6 Accidental release measures

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

- **Environmental precautions:** Do not allow product to reach sewage system or any water course.

- **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.
  Ensure adequate ventilation.

- **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

- **Handling:**
  - **Precautions for safe handling**
    Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
  - **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**
  - **Storage:** cool and dry
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
Trade name: Rapid Resin Repair - Part A

- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)**: No further relevant information available.

### 8 Exposure controls/personal protection

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

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

  **101-68-8 4,4'-methylene diphenyl diisocyanate**

  - **PEL Ceiling limit value:** 0.2 mg/m³, 0.02 ppm
  - **REL Long-term value:** 0.05 mg/m³, 0.005 ppm
    - Ceiling limit value: 0.2 mg/m³, 0.02 ppm
    - *10-min
  - **TLV Long-term value:** 0.051 mg/m³, 0.005 ppm

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

- **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.
  - **Breathing equipment:** Suitable respiratory protective device recommended.
  - **Protection of hands:**
    - **Protective gloves**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - **Eye protection:** Wear appropriate eye protection to prevent eye contact.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance**
    - **Form:** Liquid
    - **Color:** Dark brown
    - **Odor:** Slight
    - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.
### 10 Stability and reactivity

- **Reactivity**: No decomposition if stored and applied as directed.
- **Chemical stability**: No decomposition if stored and applied as directed
- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **Possibility of hazardous reactions**: No dangerous reactions known.
- **Conditions to avoid**: Keep away from heat and sources of ignition.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: No dangerous decomposition products known.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - 1101-68-8 4,4'-methylene diphenyl diisocyanate
        - Oral LD50 2,200 mg/kg (mouse)
    - Primary irritant effect:
      - on the skin: May cause skin irritation.
      - on the eye: Strong irritant with the danger of severe eye injury. Irritating effect.
  - Sensitization:
    - Sensitization possible through inhalation.
    - Sensitization possible through skin contact.
  - Additional toxicological information:
    - The product shows the following dangers according to internally approved calculation methods for preparations:
      - Harmful
      - Irritant
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - 9016-87-9 diphenylmethanediisocyanate, isomers and homologues 3
    - 101-68-8 4,4'-methylene diphenyl diisocyanate 3
  - NTP (National Toxicology Program)
    - None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    - None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.
13 Disposal considerations

- Waste treatment methods
- Recommendation:
  It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- UN-Number
  - DOT, ADR, ADN, IMDG, IATA Not Regulated

- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA Not Regulated

- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
  - Class Not Regulated

- Packing group
  - DOT, ADR, IMDG, IATA Not Regulated

- Environmental hazards:
- Marine pollutant: No

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - ADR
    - U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.
    - U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.
  - Emergency Response Guide (ERG) Number: Not determine
  - UN "Model Regulation": Not Regulated

15 Regulatory information

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

- Section 355 (extremely hazardous substances):
  None of the ingredient is listed.

- Section 313 (Specific toxic chemical listings):
  This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.
Trade name: Rapid Resin Repair - Part A

9016-87-9 diphenylmethanediisocyanate, isomers and homologues ≥10–40%
101-68-8 4,4’-methyleneǳiphényl diisocyanate ≥10–30%

- **TSCA (Toxic Substances Control Act):**
  9016-87-9 diphenylmethanediisocyanate, isomers and homologues ACTIVE
  101-68-8 4,4’-methyleneǳiphényl diisocyanate ACTIVE
  53306-54-0 Phthalate ester ACTIVE
  26447-40-5 methyleneǳiphényl diisocyanate ACTIVE

- **Hazardous Air Pollutants**
  101-68-8 4,4’-methyleneǳiphényl diisocyanate

- **Proposition 65**

  - **Chemicals known to the State of California (Prop. 65) to cause cancer:**
    None of the ingredients is listed.

  - **Chemicals known to cause reproductive toxicity for females:**
    None of the ingredients is listed.

  - **Chemicals known to cause reproductive toxicity for males:**
    None of the ingredients is listed.

  - **Chemicals known to cause developmental toxicity:**
    None of the ingredients is listed.

- **Cancerogenity categories**

  - **EPA (Environmental Protection Agency)**
    9016-87-9 diphenylmethanediisocyanate, isomers and homologues CBD
    101-68-8 4,4’-methyleneǳiphényl diisocyanate D, CBD

  - **TLV (Threshold Limit Value established by ACGIH)**
    None of the ingredients is listed.

  - **MAK (German Maximum Workplace Concentration)**
    9016-87-9 diphenylmethanediisocyanate, isomers and homologues 4
    101-68-8 4,4’-methyleneǳiphényl diisocyanate 4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  None of the ingredients is listed.

- **GHS label elements**
  The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**

  GHS07  GHS08

- **Signal word** Danger

  - **Hazard-determining components of labeling:**
    diphenylmethanediisocyanate, isomers and homologues
    4,4’-methyleneǳiphényl diisocyanate

- **Hazard statements**
  Harmful if inhaled.
Causes skin and eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
Suspected of causing cancer.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.  

**Precautionary statements**  
Do not breathe dust/fume/gas/mist/vapors/spray.  
[In case of inadequate ventilation] wear respiratory protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.  

**National regulations:**  
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.  
- **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.  

- **Department issuing SDS:** Environmental, Health & Safety Department  
- **Contact:** Environmental, Health & Safety Manager  
- **Date of preparation / last revision** 04/09/2020 / 48  
- **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  
  - ACGIH: American Conference of Governmental Industrial Hygienists  
  - 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)  
  - NFPA: National Fire Protection Association (USA)  
  - HMIS: Hazardous Materials Identification System (USA)  
  - LC50: Lethal concentration, 50 percent  
  - LD50: Lethal dose, 50 percent  
  - PBT: Persistent, Bioaccumulative and Toxic  
  - vPvB: very Persistent and very Bioaccumulative  
  - NIOSH: National Institute for Occupational Safety  
  - OSHA: Occupational Safety & Health  
  - TLV: Threshold Limit Value  
  - PEL: Permissible Exposure Limit  
  - REL: Recommended Exposure Limit  
  - Acute Tox. 4: Acute toxicity – Category 4  
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2  
  - Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
  - Resp. Sens. 1: Respiratory sensitisation – Category 1  
  - Skin Sens. 1B: Skin sensitisation – Category 1B  
  - Carc. 2: Carcinogenicity – Category 2  
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
1 Identification

- **Product identifier**
  - **Trade name:** Rapid Resin Repair - Part B
  - **Article number:** 309087B
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Dayton® Superior
    4226 Kansas Avenue                   Tel.: (866) 329-8724
    Kansas City, KS 66106
  - Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.
  - **Information department:** Environmental, Health, and Safety department.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Flam. Liq. 4     H227  Combustible liquid.
  - Eye Irrit. 2A    H319  Causes serious eye irritation.
  - Asp. Tox. 1     H304  May be fatal if swallowed and enters airways.
  - Aquatic Acute 3 H402  Harmful to aquatic life.
  - Aquatic Chronic 3 H412  Harmful to aquatic life with long lasting effects.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS07
    - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - Solvent naphta (petroleum) heavy aliph.
  - Distillates (petroleum), hydrotreated light

- **Hazard statements**
  - Combustible liquid.
  - Causes serious eye irritation.
  - May be fatal if swallowed and enters airways.
  - Harmful to aquatic life.
  - Harmful to aquatic life with long lasting effects.

- **Precautionary statements**
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - If swallowed: Immediately call a poison center/doctor.
  - Do NOT induce vomiting.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 2
    - Reactivity = 1
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 2
    - Reactivity = 1
- **Other hazards**
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
  - 64742-96-7 Solvent naphta (petroleum) heavy aliph. \(\leq 10.0\%\)
  - 64742-47-8 Distillates (petroleum), hydrotreated light \(\leq 10.0\%\)
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**
  - Immediately remove any clothing soiled by the product.
  - In the event of persistent symptoms receive medical treatment.
- **After inhalation:**
  - In case of unconsciousness place patient stably in side position for transportation.
  - Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.
- **After skin contact:**
  - Immediately wash with water and soap and rinse thoroughly.
  - If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Seek medical treatment.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.
5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
  - Protective equipment:
    Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
- 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.
  - Ensure adequate ventilation.
- 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

- Handling:
  - Precautions for safe handling
    - Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
  - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
  - Storage: cool and dry
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Further information about storage conditions: Keep receptacle tightly sealed.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components 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.
**Protection of hands:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Eye protection:** Wear appropriate eye protection to prevent eye contact.

**Gloves:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Eye protection:** Wear appropriate eye protection to prevent eye contact.

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td>Form: Liquid</td>
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<tr>
<td>Color: Amber</td>
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<tr>
<td>Odor: Slight</td>
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<tr>
<td>Odor threshold: Not determined.</td>
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<tr>
<td><strong>pH-value at 20 °C (68 °F):</strong> 7</td>
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<tr>
<td><strong>Change in condition</strong></td>
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<tr>
<td>Melting point/Melting range: Undetermined.</td>
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<tr>
<td>Boiling point/Boiling range: 200 °C (392 °F)</td>
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<tr>
<td><strong>Flash point:</strong> 61 °C (141.8 °F)</td>
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<tr>
<td><strong>Flammability (solid, gaseous):</strong> Not applicable.</td>
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<tr>
<td><strong>Ignition temperature:</strong> 210 °C (410 °F)</td>
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<tr>
<td><strong>Decomposition temperature:</strong> Not determined.</td>
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<tr>
<td><strong>Auto igniting:</strong> Product is not selfigniting.</td>
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<tr>
<td><strong>Danger of explosion:</strong> Not determined.</td>
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<tr>
<td><strong>Explosion limits:</strong></td>
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<tr>
<td>Lower: 0.5 Vol %</td>
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<tr>
<td>Upper: 6.5 Vol %</td>
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<tr>
<td><strong>Vapor pressure at 20 °C (68 °F):</strong> 2 hPa (1.5 mm Hg)</td>
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<tr>
<td><strong>Density at 20 °C (68 °F):</strong> 1.2 g/cm³ (10.014 lbs/gal)</td>
</tr>
</tbody>
</table>
Trade name: Rapid Resin Repair - Part B

- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.

- Solubility in / Miscibility with Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.

- Solvent content:
  - Solids content: 100.0 %
  - Other information: No further relevant information available.

- Volatile Organic Compounds: Contains less than 10 g/L

10 Stability and reactivity

- Reactivity: No decomposition if stored and applied as directed.
- Chemical stability: No decomposition if stored and applied as directed
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: Keep away from heat and sources of ignition.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:
    - on the skin: May cause skin irritation.
    - on the eye: Strong irritant with the danger of severe eye injury.
      Irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    The product shows the following dangers according to internally approved calculation methods for preparations:
    Irritant

- Carcinogenic categories

  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Behavior in environmental systems:**
    - **Bioaccumulative potential** No further relevant information available.
    - **Mobility in soil** No further relevant information available.
  - **Ecotoxicological effects:**
    - **Remark:** Harmful to fish

- **Additional ecological information:**
  - **General notes:**
    - Water hazard class 1 (Self-assessment): slightly hazardous for water
    - Water hazard class 2 (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
    - Harmful to aquatic organisms
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
  - **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    - It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- **UN-Number**
  - DOT, ADR, ADN, IMDG, IATA: Not Regulated

- **UN proper shipping name**
  - DOT, ADR, ADN, IMDG, IATA: Not Regulated

- **Transport hazard class(es)**
  - DOT, ADR, ADN, IMDG, IATA: Not Regulated
Trade name: Rapid Resin Repair - Part B

- Packing group
  - DOT, ADR, IMDG, IATA
  - DOT
  - ADR
  - IMDG
  - IATA
  - Packing group
  - III

- Environmental hazards:
  - Product contains environmentally hazardous substances:
  - reaction product: bisphenol-A-(epichlorhydrin) epoxy resin
  - (number average molecular weight = 700)
  - Marine pollutant:
  - Yes

- Transport in bulk according to Annex II of MARPOL73/78
  - and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - DOT
    - Remarks:
    - Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).
  - ADR
  - U.S. Domestic Ground Shipments:
    - Same as listed for Standard Shipments above.
  - U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:
    - Same as listed for Standard Shipments above.
  - Emergency Response Guide (ERG) Number:
    - Not determine
  - UN "Model Regulation":
    - Not Regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
    - None of the ingredient is listed.
  - Section 313 (Specific toxic chemical listings):
    - This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.
    - None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):
    - 102-60-3  1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol
      - ACTIVE
    - 64742-96-7 Solvent naphta (petroleum) heavy aliph.
      - ACTIVE
    - 64742-47-8 Distillates (petroleum), hydrotreated light
      - ACTIVE
    - 6846-50-0 Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester
      - ACTIVE
    - 1305-78-8 calcium oxide
      - ACTIVE

- Hazardous Air Pollutants
  - None of the ingredients is listed.

- Proposition 65
  - None of the ingredients is listed.

(Contd. on page 8)
Trade name: Rapid Resin Repair - Part B

### Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

### Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

### Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

#### Cancerogenity categories

<table>
<thead>
<tr>
<th>Agency</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA</td>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td>TLV (Threshold Limit Value established by ACGIH)</td>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td>MAK (German Maximum Workplace Concentration)</td>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td>NIOSH-Ca (National Institute for Occupational Safety and Health)</td>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

#### GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms

- GHS07
- GHS08

#### Signal word
Danger

#### Hazard-determining components of labeling:
- Solvent naptha (petroleum) heavy aliph.
- Distillates (petroleum), hydrotreated light

#### Hazard statements
- Combustible liquid.
- Causes serious eye irritation.
- May be fatal if swallowed and enters airways.
- Harmful to aquatic life.
- Harmful to aquatic life with long lasting effects.

#### Precautionary statements
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- If swallowed: Immediately call a poison center/doctor.
- Do NOT induce vomiting.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

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

- Department issuing SDS: Environmental, Health & Safety Department
- Contact: Environmental, Health & Safety Manager
- Date of preparation / last revision 04/09/2020 / 48

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
ACGIH: American Conference of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
1 Identification

- **Product identifier**
  - **Trade name**: Rapid Resin Repair - Part C
  - **Article number**: 309087C
  - **CAS Number**: 14808-60-7
  - **EC number**: 238-878-4
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier**: Dayton® Superior
    - 4226 Kansas Avenue
    - Kansas City, KS 66106
    - Tel.: (866) 329-8724
  - **Emergency Telephone Number**: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call international number, +1 703 741-5970. Collect calls are accepted.
  - **Information department**: Environmental, Health, and Safety department.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - Carc. 1A H350 May cause cancer.
- **Label elements**
  - **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS07
    - GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling**
  - Quartz (SiO2)
- **Hazard statements**
  - Causes serious eye irritation.
  - May cause cancer.
- **Precautionary statements**
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF exposed or concerned: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
Trade name: Rapid Resin Repair - Part C

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 2
    - Fire = 0
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - Health = *2
    - Fire = 0
    - Reactivity = 0

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

3 Composition/information on ingredients

- Chemical characterization: Substances
  - CAS No. Description
    14808-60-7 Quartz (SiO2)
  - Identification number(s) Not applicable
  - EC number: 238-878-4

4 First-aid measures

- Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: If skin irritation continues, consult a doctor.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed: No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment:
  Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  No special measures required.
  Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- 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

- Handling:
  - Precautions for safe handling
    Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
  - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace:
    14808-60-7 Quartz (SiO2)
    - PEL Long-term value: 0.05* mg/m³
      *resp. dust; 30mg/m3/%SiO2+2
    - REL Long-term value: 0.05* mg/m³
      *respirable dust; See Pocket Guide App. A
    - TLV Long-term value: 0.025* mg/m³
      *as respirable fraction
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures: Wash hands before breaks and at the end of work.
  - Breathing equipment: Not required.
# Safety Data Sheet
acc. to OSHA HCS

**Trade name:** Rapid Resin Repair - Part C

## Protection of hands:

**Protective gloves**

The glove material has to be impermeable and resistant to the product/substance/preparation.

## 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.

## 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

*Wear appropriate eye protection to prevent eye contact.*

## 9 Physical and chemical properties

<table>
<thead>
<tr>
<th><strong>Information on basic physical and chemical properties</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td>Form: Solid</td>
</tr>
<tr>
<td>Color: Different according to coloring</td>
</tr>
<tr>
<td>Odor: Characteristic</td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
</tr>
<tr>
<td><strong>pH-value:</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
</tr>
<tr>
<td>Melting point/Melting range: 1,713 °C (3,115.4 °F)</td>
</tr>
<tr>
<td>Boiling point/Boiling range: 2,230 °C (4,046 °F)</td>
</tr>
<tr>
<td><strong>Flash point:</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong> Product is not flammable.</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Auto igniting:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong> Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
</tr>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
<tr>
<td><strong>Vapor pressure at 1732 °C (3,149.6 °F):</strong> 13.5 hPa (10.1 mm Hg)</td>
</tr>
<tr>
<td><strong>Density at 20 °C (68 °F):</strong> 2.65 g/cm³ (22.11425 lbs/gal)</td>
</tr>
<tr>
<td><strong>Bulk density:</strong> 1,400 kg/m³</td>
</tr>
<tr>
<td><strong>Relative density:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Vapor density:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water:</strong> Insoluble.</td>
</tr>
</tbody>
</table>

(Contd. of page 3)

(Contd. on page 5)
Safety Data Sheet
acc. to OSHA HCS

Trade name: Rapid Resin Repair - Part C

(Contd. of page 4)

- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- Solids content: 100.0 %
- Other information: No further relevant information available.
- Volatile Organic Compounds: Contains less than 10 g/L

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability:
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: Keep away from heat and sources of ignition.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: May cause skin irritation.
      - on the eye: Strong irritant with the danger of severe eye injury.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    - Carcinogenic categories
      - IARC (International Agency for Research on Cancer) 1
      - NTP (National Toxicology Program) K
      - OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
Trade name: Rapid Resin Repair - Part C

- Additional ecological information:
  - General notes:
    Not hazardous for water.
    Water hazard class 1 (Assessment by list): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    Danger to drinking water if even extremely small quantities leak into the ground.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of as normal garbage. Do not allow product to reach sewage system.
    It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
  - Uncleaned packaging:
    - Recommendation: Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- UN-Number
  - DOT, ADR, ADN, IMDG, IATA: Not Regulated

- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: Not Regulated

- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
    - Class: Not Regulated

- Packing group
  - DOT, ADR, IMDG, IATA: Not Regulated

- Environmental hazards:
  - Marine pollutant: No

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

- Transport/Additional information:
  - ADR
    - U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above.
    - U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: Same as listed for Standard Shipments above.
  - Emergency Response Guide (ERG) Number: Not determine
Safety Data Sheet  
acc. to OSHA HCS

Trade name: Rapid Resin Repair - Part C  
(Contd. of page 6)

- **UN "Model Regulation":** Not Regulated

### 15 Regulatory information

- **Sara**
  - Section 355 (extremely hazardous substances):
    - Substance is not listed.
  - Section 313 (Specific toxic chemical listings): This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.
    - Substance is not listed.

- **TSCA (Toxic Substances Control Act):** ACTIVE

- **Hazardous Air Pollutants**
  - Substance is not listed.

- **Proposition 65**
  - Chemicals known to the State of California (Prop. 65) to cause cancer:
    - Substance is listed.
  - Chemicals known to cause reproductive toxicity for females:
    - Substance is not listed.
  - Chemicals known to cause reproductive toxicity for males:
    - Substance is not listed.
  - Chemicals known to cause developmental toxicity:
    - Substance is not listed.

- **Cancerogenity categories**
  - EPA (Environmental Protection Agency)
    - Substance is not listed.
  - TLV (Threshold Limit Value established by ACGIH)
    - A2
  - MAK (German Maximum Workplace Concentration)
    - 1
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    - Substance is listed.

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**
  - GHS07
  - GHS08
Trade name: Rapid Resin Repair - Part C

Signal word Danger

Hazard-determining components of labeling:
Quartz (SiO2)

Hazard statements
Causes serious eye irritation.
May cause cancer.

Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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

16 Other information
The provided 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.

Department issuing SDS: Environmental, Health & Safety Department
Contact: Environmental, Health & Safety Manager

Date of preparation / last revision: 04/09/2020 / 37

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
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 1A: Carcinogenicity – Category 1A