1 Identification

· Product identifier
  · Product name: Tolonate™ D2

· Relevant identified uses of the substance or mixture and uses advised against
  Relevant identified uses:
  - Manufacture of substances:
  - Formulations:
  - Manufacture of paints and varnishes
  - Industrial use:
  - Professional use:
  - Uses advised against:
  - Consumer use:
    For further information, refer to section 16.

· Application of the substance / the mixture
  Manufacture of paints and varnishes
  For further information, refer to the product technical data sheet.

· Details of the supplier of the safety data sheet
  · Information department: productinfo@vencorex.com
  · Emergency telephone number:
    FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT:
    CHEMTREC 800-424-9300 within the United States or 703-527-3887 for international collect calls.
    Vencorex Chemtrec Customer Number: CCN227304
  · Chemical Name or Synonym: Aliphatic polyisocyanate in solution.

2 Hazard(s) identification

· Classification of the substance or mixture
  Flam. Liq. 3 H226 Flammable liquid and vapour.
  Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
  Skin Irrit. 2 H315 Causes skin irritation.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  STOT SE 3 H336 May cause drowsiness or dizziness.

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

· Hazard pictograms
  
  GHS02  GHS07  GHS08  GHS09

· Signal word Danger

· Hazard-determining components of labeling:
  Hexamethylene diisocyanate, oligomerisation product, blocked with 2-butanone oxime
  hexamethylene-di-isocyanate
  2-butanone oxime

· Hazard statements
  H226 Flammable liquid and vapour.
  H315 Causes skin irritation.
  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  H317 May cause an allergic skin reaction.

(Contd. on page 2)
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P352 If on skin: Wash with plenty of water.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
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:**

WARNING! FLAMMABLE LIQUID. HARMFUL IF INHALED. MAY CAUSE SKIN, EYE AND RESPIRATORY TRACT IRRITATION. POSSIBLE SENSITIZER. REACTS WITH COMMON MATERIALS INCLUDING WATER, ALCOHOLS, BASES AND AMINES RELEASING LARGE AMOUNTS OF CARBON DIOXIDE.

**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**

On contact with water carbon dioxide is released.

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens. Asthmatic sensitization can occur from a single large inhalation exposure or from repeated lower inhalation exposures. Strict observation of exposure limits is essential (see Section 8).

**Results of PBT and vPvB assessment**

- PBT: Not applicable.
- vPvB: Not applicable.

### 3 Composition/information on ingredients

**Chemical components:**

<table>
<thead>
<tr>
<th>CAS</th>
<th>EC number</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>85940-94-9</td>
<td>617-779-3</td>
<td>Hexamethylene disocyanate, oligomerisation product, blocked with 2-butanone oxime</td>
<td>≈ 75%</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>918-668-5</td>
<td>Solvent naphtha (petroleum), light arom</td>
<td>≈ 25%</td>
</tr>
<tr>
<td>95-63-6</td>
<td>202-436-9</td>
<td>1,2,4-trimethylbenzene</td>
<td>17 - 23%</td>
</tr>
<tr>
<td>108-67-8</td>
<td>203-604-4</td>
<td>Mesitylene</td>
<td>2.5 - 7.5%</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>Xylene</td>
<td>1 - 2.5%</td>
</tr>
</tbody>
</table>
**4 First-aid measures**

- **Description of first aid measures**
  - **After inhalation:**
    - Move the person away from the contaminated area.
    - Fresh air and rest.
    - Seek immediate medical advice.
    - Show this sheet to the doctor.
  - **After skin contact:**
    - Use appropriate protective equipment when treating a contaminated person.
    - Immediately remove any clothing soiled by the product.
    - Wash with soap and water.
    - Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
    - In case of inflammation (redness, irritation, ...) obtain medical attention.
    - Place contaminated clothing in a sealed bag for disposal.
  - **After eye contact:**
    - Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
    - Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) while keeping the eyes wide open.
    - If irritation persists, consult a doctor.
    - Show this sheet to the doctor.
  - **After swallowing:**
    - NEVER attempt to induce vomiting. Rinse mouth out with water.
    - Do not give anything to drink.
    - If necessary seek medical advice.
    - Show this sheet to the doctor.
  - **Most important symptoms and effects, both acute and delayed**
    - No further relevant information available.
  - **Danger**
    - Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.
  - **Indication of any immediate medical attention and special treatment needed**
    - All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
    - Treat symptomatically. No specific antidote available.

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Powders
  - Carbon dioxide
  - Dry chemical
- **For safety reasons unsuitable extinguishing agents:**
  - None. If there is a fire close by, use suitable extinguishing agents.
Product name: **Tolonate™ D2**

- **Special hazards arising from the substance or mixture**
  Flammable.
  During combustion toxic vapors are released.
  Under fire conditions, corrosive fumes are emitted: oxides of nitrogen oxides of carbon.
  Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.

- **Advice for firefighters**
- **Protective equipment:**
  Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

- **Additional information**
  Stay upwind.
  Evacuate the personnel away from the fumes.
  In case of fire close by:
  Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
  Do not breathe fumes.
  Do NOT attempt to fight the fire without suitable protective equipment.
  If there is a fire close by and if packaging has not been damaged:
  Use suitable extinguishers.

---

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**
  Avoid any direct contact with the product.
  NO flames, NO sparks. Eliminate all sources of ignition.
  Do NOT approach from DOWNWIND.
  Do NOT attempt to take action WITHOUT suitable protective equipment.
  Mark out the contaminated area with signs and prevent access to unauthorized personnel.
  Keep people at a distance and stay upwind.

- **Environmental precautions:**
  Contain the spilled material by binding.
  Minimize the area spreading and cover the drains.

- **Methods and material for containment and cleaning up:**
  Pump up the product into a spare container suitably labelled.
  Absorb non-recoverable liquid with inert absorbent material.
  Wash contaminated area with large amounts of water.
  Recover the cleaning water for subsequent disposal.
  Dispose contaminated material as waste according to item 13.

- **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**

- **Precautions for safe handling**
  Ground the equipment.
  Ensure good ventilation/aspiration at the workplace.
  Avoid contact with water or humidity.
  Avoid any direct contact with the product.
  Any measure to eliminate exposure should be considered.
  Do NOT heat up.
  Do NOT vaporize near a flame or a very hot object.
Product name: Tolonate™ D2

· Information about protection against explosions and fires:
  Protect from heat.
  Keep ignition sources away - Do not smoke.
· Conditions for safe storage, including any incompatibilities
· Storage:
  The floor of the depot should be impermeable and designed to form a water-tight basin.
  Store receptacle in a well ventilated area.
  Store in cool, dry conditions in well sealed receptacles.
· Requirements to be met by storerooms and receptacles:
  Store only in unopened original receptacles.
  - Metallic drums.
  Suitable material for receptacles and pipes: Aluminium.
  Suitable material for receptacles and pipes: steel or stainless steel.
  Suitable material for receptacle and pipe: epoxy-coated steel.
  Unsuitable material for receptacle: Copper.
  Unsuitable material for receptacle: Polystyrene.
  Unsuitable material for receptacle: Tin
· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters
· Components with limit values that require monitoring at the workplace:
  Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin and C=ceiling limit:

<table>
<thead>
<tr>
<th>96-29-7 2-butanone oxime</th>
<th>WEEL</th>
<th>10 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DSEN</td>
<td></td>
</tr>
<tr>
<td>822-06-0 hexamethylene-di-isocyanate</td>
<td>REL</td>
<td>Short-term value: C 0.14* mg/m³, C 0.02* ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long-term value: 0.035 mg/m³, 0.005 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*10-min</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>0.034 mg/m³, 0.005 ppm</td>
</tr>
<tr>
<td>95-63-6 1,2,4-trimethylbenzene</td>
<td>REL</td>
<td>Long-term value: 125 mg/m³, 25 ppm</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Long-term value: 123 mg/m³, 25 ppm</td>
</tr>
<tr>
<td>108-67-8 mesitylene</td>
<td>REL</td>
<td>Long-term value: 125 mg/m³, 25 ppm</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Long-term value: 123 mg/m³, 25 ppm</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
<td>PEL</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>Short-term value: 655 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Short-term value: 651 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long-term value: 434 mg/m³, 100 ppm</td>
</tr>
<tr>
<td></td>
<td>BEI</td>
<td></td>
</tr>
<tr>
<td>98-82-8 cumene</td>
<td>PEL</td>
<td>Long-term value: 245 mg/m³, 50 ppm</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>Long-term value: 245 mg/m³, 50 ppm</td>
</tr>
<tr>
<td></td>
<td>TLV</td>
<td>Long-term value: 246 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>
Product name: Tolonate™ D2

- **TLV (Threshold Limit Value established by ACGIH)**
  - 822-06-0 hexamethylene-di-isocyanate 0.005 ppm
  - 95-63-6 1,2,4-trimethylbenzene 25 ppm
  - 108-67-8 mesitylene 25 ppm
  - 1330-20-7 xylene 100 ppm
  - 98-82-8 cumene 50 ppm

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - 822-06-0 hexamethylene-di-isocyanate
  - 95-63-6 1,2,4-trimethylbenzene
  - 108-67-8 mesitylene
  - 1330-20-7 xylene
  - 98-82-8 cumene

- **Exposure controls**
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Ensure good ventilation of the work station.
    - Shower or take a bath at the end of work.
    - Safety shower.
    - Eye wash.
    - Separate normal clothes from work-clothes.
    - Immediately remove all soiled and contaminated clothing.
  - **Breathing equipment:**
    - When using a spray-gun, wear: Self-contained breathing apparatus.
    - In the event of insufficient ventilation: Self-contained breathing apparatus.
    - When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
  - **Protection of hands:**
    - Rubber gloves
  - **Material of gloves**
    - Rubber gloves
    - Use suitable chemical-resistant protective gloves.
    - Protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required.
    - The selection of gloves must take into account the extent and duration of use at the workstation.
  - **Eye protection:**
    - Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
    - Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.
  - **Body protection: Protective work clothing**
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
  - Appearance:
    - Form: Liquid
    - Color: Colourless to pale yellow.
    - Odor: Solvent-like
  - pH-value: Not applicable (reacts with water).
- Change in condition
  - Melting point/Melting range: Not applicable.
  - Boiling point/Boiling range: 162-178 °C (324-352 °F)
  - > 203 °C (397 °F) at 1 mmHg
- Flash point: 49 °C (120 °F) (Closed cup)
  - Flammability Class: WILL BURN
- Ignition temperature: 450 °C (842 °F)
- Danger of explosion: The product is not explosive. However, formation of explosive air-vapour mixtures are possible.
- Explosion limits:
  - Lower: 0.6 Vol %
  - Upper: 7 Vol %
- Oxidizing properties: Not oxidizing.
- Vapor pressure at 20 °C (68 °F): 5 hPa (4 mm Hg)
- Density at 25 °C (77 °F): 1.060 g/cm³ (8.846 lbs/gal)
- Solubility in / Miscibility with
  - Water: Reacts.
  - Ketones: Soluble
  - aromatic hydrocarbons: Soluble
  - esters: Soluble
- Segregation coefficient (n-octanol/water): Blocked aliphatic polyisocyanates:
  - Not applicable (reacts with water and/or octanol).
  - Solvent naphtha (petroleum), light arom:
  - Not applicable.
- Viscosity:
  - Dynamic at 25 °C (77 °F): 3500 mPa.s
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: Stable at ambient temperature.
- Possibility of hazardous reactions
  - Reacts with strong oxidizing agents
  - Reacts with acids.
  - Reacts with bases
  - Reacts with strong acids
  - Reacts with oxidizing agents.
    - with a great release of CO2, and hence a risk of a pressure build-up in confined areas, and forms an insoluble solid precipitate.

(Contd. on page 8)
**Product name:** Tolonate™ D2

- **Conditions to avoid**
  - extreme heat
  - open flame
  - moisture
  - ignition sources
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
  - On thermal decomposition (pyrolysis) releases:
    - Toxic gases.
    - Carbon oxides (CO + CO2)
    - Nitrogen oxides (NOx)
  - During use, releases:
    - 2-Butanone oxime - Quantity potentially released: 24.4 % of the weight of the mixture.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

<table>
<thead>
<tr>
<th>LD/LC50 values:</th>
<th>85940-94-9 Hexamethylene diisocyanate, oligomerisation product, blocked with 2-butaneone oxime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50 &gt; 2000 mg/kg (rat) (OECD 401)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD0 &gt; 2667 mg/kg (rat) (OECD Guideline 402)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50(4h) &gt; 2757 mg/m³ (rat) (OECD 403)</td>
</tr>
<tr>
<td>NOAEC</td>
<td>5 mg/m³ (rat) (OECD 413)</td>
</tr>
<tr>
<td>RD50(3h)</td>
<td>1450 mg/m³ (mouse) (ASTM method designated E981-84, OECD TG 403)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>64742-95-6 solvent naphtha (petroleum), light arom.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>96-29-7 2-butanone oxime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>822-06-0 hexamethylene-di-isocyanate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **on the skin:** Irritating to the skin. Repeated exposure may cause skin dryness or cracking.
  - **on the eye:** Slightly irritating.
- **Other information (about experimental toxicology):**
  - 2-Butanone oxime: Severely irritating to the eyes.
- **Additional toxicological information:**
- **Carcinogenic categories**
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - Not listed.
- **Sensitization**
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause sensitisation by skin contact.
Product name: Tolonate™ D2

- **Carcinogenicity:**
  Liver tumours were only observed in male rats and mice exposed to high concentrations of 2-butanone oxime (MEKO).

<table>
<thead>
<tr>
<th>Compound</th>
<th>Inhalative NOAEC Carc</th>
<th>Inhalative NOAEC</th>
<th>Reproductive toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>822-06-0 hexamethylene-di-isocyanate</td>
<td>0.164 ppm (rat) (OECD 453)</td>
<td>270 ppm (rat)</td>
<td>Is not considered hazardous to the reproduction.</td>
</tr>
<tr>
<td>96-29-7 2-butanone oxime</td>
<td>0.3 ppm (rat) (OECD 422)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Mutagenicity:** Product is not considered to be genotoxic.

- **Reproductive toxicity:**
  The product does not have any known adverse effects on the aquatic organisms tested.

**12 Ecological information**

- **Toxicity**
  - **Aquatic toxicity:**
    Blocked aliphatic polyisocyanates:
    The product does not have any known adverse effects on the aquatic organisms tested.
    Solvent naphtha (petroleum), light arom:
    Toxic to aquatic organisms.
    - 85940-94-9 Hexamethylene diisocyanate, oligomerisation product, blocked with 2-butanone oxime:
      - EC50/3h > 10000 mg/l (?) (OECD 209)
      - EC50/48h > 1.61 mg/l (Daphnia magna) (OECD 202)
      - EC50/72h > 8.1 mg/l (Desmodesmus subspicatus) (OECD 201)
      - LC50/96h 141.4 mg/l (Danio rerio) (OECD 203)
    - 64742-95-6 solvent naphtha (petroleum), light arom:
      - EC50/48h 3.2 mg/l (Daphnia magna) (OECD 202)
      - EC50/72h 2.6 mg/l (Pseudokirchnerella subcapitata) (OECD 201)
      - LC50/96h 9.2 mg/l (Oncorhynchus mykiss) (OECD 203)
    - 822-06-0 hexamethylene-di-isocyanate:
      - ErC50(0-72h) (static) ≥ 89.1 mg/l (Daphnia magna) (EU C.2)
      - ErC50(0-72h) (static) ≥ 77.4 mg/l (Desmodesmus subspicatus) (EU C.3)
      - LC0/96h (static) ≥ 82.8 mg/l (Brachydano rario) (EU C.1)
      - NOE72h (static) 11.7 mg/l (Desmodesmus subspicatus) (EU C.3)
    - 96-29-7 2-butanone oxime:
      - EC10 100 mg/l (Daphnia magna) ((21 days))
      - EC50/48h 50 mg/l (Oncorhynchus mykiss) ((14 days))
      - EC50/96h 201 mg/l (Daphnia magna)
      - EC50/96h > 100 mg/l (Oncorhynchus mykiss)

- **Persistence and degradability**
  - 85940-94-9 Hexamethylene diisocyanate, oligomerisation product, blocked with 2-butanone oxime:
    - BOD28 19 % (-) (OECD 301C)
  - 822-06-0 hexamethylene-di-isocyanate:
    - BOD28 42 % (bacteria) (EU C.4-D)
Product name: **Tolonate™ D2**

### 40.1.0

- **DT50** 25 °C, 48.44 h (Photolysis) (AOPWIN v1.92)
- 23 °C, 0.23 h (Hydrolysis) (ASTM D4666)

### Degree of elimination:
- Blocked aliphatic polyisocyanates:
  - Not biodegradable.
- Solvent naphtha (petroleum), light arom:
  - Readily biodegradable.

### Behavior in environmental systems:
- **Bioaccumulative potential**
  - Blocked aliphatic polyisocyanates:
    - Not potentially bioaccumulable.
  - Solvent naphtha (petroleum), light arom:
    - Potentially bioaccumulable.

### Mobility in soil

<table>
<thead>
<tr>
<th>822-06-0 hexamethylene-di-isocyanate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Koc 5861 (.) (PCKOC v1.66)</td>
</tr>
</tbody>
</table>

### Ecotoxical effects:

### Other information:
- This preparation is classified as:
  - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Results of PBT and vPvB assessment**
  - PBT: No.
  - vPvB: No.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    - Discharging waste into rivers and drains is forbidden.
    - Incinerate at a licensed installation.
    - Disposal must be made according to federal, state and local regulations.
  - **Uncleaned packagings:**
    - Contaminated packaging materials must be disposed of in the same manner as the product.
  - **Recommendation:**
    - Allow it to drain thoroughly.
    - Thoroughly emptied and clean packagings may be recycled.
    - Disposal must be made according to official regulations.

### 14 Transport information

- **UN Number**
  - DOT, ADR, IMDG, IATA: UN1866

- **Proper shipping name (Technical Name)**
  - DOT, ADR, IMDG, IATA: RESIN SOLUTION
Safety Data Sheet acc. to OSHA HCS

Product name: Tolonate™ D2

- Transport hazard class(es)
  - DOT
    - Class 3 Flammable liquids
    - Label 3
  - ADR, IMDG
    - Class 3 Flammable liquids
    - Label 3
  - IATA
    - Class 3 Flammable liquids
    - Label 3
  - Packing group
    - DOT, ADR, IMDG, IATA III

- Environmental hazards:
  Product contains environmentally hazardous substances: solvent naphtha (petroleum), light arom

- Marine pollutant (environmentally hazardous mark):
  Symbol (fish and tree)

- Special marking (ADR):
  Symbol (fish and tree)

- Special precautions for user
  Warning: Flammable liquids
  Emergency first-aid measures:
  Hazard identification number: 30
  EMS Number: F-E,S-D

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

- Transport/Additional information:
  The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the SDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

- Passenger aircraft:
  Packing instruction: 355 - Maximum net quantity per package: 60 L

- Cargo aircraft:
  Packing instruction: 366 - Maximum net quantity per package: 220L
Product name: Tolonate™ D2

15 Regulatory information

- National legislation
- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara Section 312
    - Fire Hazard - YES
    - Reactive Hazard - NO
    - Release of Pressure - NO
    - Acute Health Hazard - YES
    - Chronic Health Hazard - YES
- Section 355 (extremely hazardous substances):
  - None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):
  - CERCLA RQ 100 lbs for 822-06-0
  - CERCLA RQ 5000 lbs for 1330-20-7
  - CERCLA RQ 100 lbs for 98-82-8
  - CERCLA RQ 25000 lbs for 95-63-6
  - 822-06-0 hexamethylene-di-isocyanate
  - 95-63-6 1,2,4-trimethylbenzene
  - 1330-20-7 xylene
  - 98-82-8 cumene
- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    - Not listed.
  - IARC (International Agency for Research on Cancer)
    - Not listed.
  - NTP (National Toxicology Program)
    - Not listed.
- Inventory status:
  - Australian Inventory of Chemical Substances (AICS)
    - All ingredients are listed.
  - Canadian Domestic Substance List (DSL)
    - All ingredients are listed.
  - Canadian Non Domestic Substance List (NDSL)
    - Not listed.
  - Chinese Chemical Inventory of Existing Chemical Substances (CIECS)
    - All ingredients are listed.
  - European EINECS/ELINCS Listing
    - All ingredients are listed.
  - Japan Existing and New chemical Substance List (ENCS)
    - All ingredients are listed.
  - Korea Existing Chemical Inventory (KECI)
    - All ingredients are listed.
  - Philippines Inventory of Chemicals and Chemical Substances (PICCS)
    - All ingredients are listed.
  - TSCA listing
    - All ingredients are listed.

(Contd. on page 13)
### Other regulations, limitations and prohibitive regulations

- **State of California, Proposition 65:**
  - Chemicals known to cause cancer:
    - 98-82-8 | cumene
  - Chemicals known to cause reproductive toxicity for females:
    - Not listed.
  - Chemicals known to cause reproductive toxicity for males:
    - Not listed.
  - Chemicals known to cause developmental toxicity:
    - Not listed.

---

### 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:** Service HSE Vencorex
- **Date of preparation / last revision** 03/11/2015 / 4
- **Data compared to the previous version altered.**