1 Identification

- **Product identifier**
  - **Trade name**: 21013 Solaray UV Clearcoat Aerosol
  - **Article number**: 21013
  - **Application of the substance / the mixture**: Coating
  - **Details of the supplier of the safety data sheet**
    - **Manufacturer/Supplier**: SEM Products Inc.
      1685 Overview Drive
      Rock Hill, SC 29730
      803 207 8225
  - **Information department**
    - cust_care@semproducts.com: SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730: phone 1-800-831-1122, M - TH 7am - 4pm EDT
  - **Emergency telephone number**: CHEMTREC 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **GHS02 GHS04 Flame, Gas cylinder**
    - Flam. Aerosol 1 H222 Extremely flammable aerosol.
  - **GHS04 Gas cylinder**
    - Press. Gas H280 Contains gas under pressure; may explode if heated.
  - **GHS08 Health hazard**
    - Carc. 2 H351 Suspected of causing cancer.
    - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
    - STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  - **GHS07**
    - Skin Irrit. 2 H315 Causes skin irritation.
    - Eye Irrit. 2A H319 Causes serious eye irritation.
    - Skin Sens. 1 H317 May cause an allergic skin reaction.
    - STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
Trade name: 21013 Solaray UV Clearcoat Aerosol

- **Hazard pictograms**

  - GHS02
  - GHS04
  - GHS07
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - acetone
  - hexamethylene diacrylate
  - toluene
  - 4-methylpentan-2-one
  - phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
  - 1-acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethylpiperidine

- **Hazard statements**
  - H222 Extremely flammable aerosol.
  - H280 Contains gas under pressure; may explode if heated.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H317 May cause an allergic skin reaction.
  - H351 Suspected of causing cancer.
  - H361 Suspected of damaging fertility or the unborn child.
  - H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
  - H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P211 Do not spray on an open flame or other ignition source.
  - P251 Pressurized container: Do not pierce or burn, even after use.
  - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P272 Contaminated work clothing must not be allowed out of the workplace.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P302+P352 If on skin: Wash with plenty of water.
  - P304+P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P312 Call a poison center/doctor if you feel unwell.
  - P314 Specific treatment (see on this label).
  - P314 Get medical advice/attention if you feel unwell.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P363 Wash contaminated clothing before reuse.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  - P405 Store locked up.
  - P410+P403 Protect from sunlight. Store in a well-ventilated place.
Trade name: 21013 Solaray UV Clearcoat Aerosol

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)
  - Health = 2
  - Fire = 4
  - Reactivity = 3

- HMIS-ratings (scale 0 - 4)
  - Health = 2
  - Fire = 4
  - Reactivity = 3

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

### 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description:
  Mixture: consisting of the following components.
  Weight percentages

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>115-10-6 dimethyl ether</td>
<td>40-60%</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>13-30%</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>13-30%</td>
</tr>
<tr>
<td>108-10-1 4-methylpentan-2-one</td>
<td>1.5-5%</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>1.5-5%</td>
</tr>
<tr>
<td>13048-33-4 hexamethylene diacrylate</td>
<td>1.5-5%</td>
</tr>
<tr>
<td>162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</td>
<td>≥0.1-&lt;1%</td>
</tr>
<tr>
<td>106917-31-1 1-acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethylpiperidine</td>
<td>≥0.1-&lt;1%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

- Description of first aid measures
- After inhalation:
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
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: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  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.
- Protective Action Criteria for Chemicals

| PAC-1 | | | |
|-------|-------|-------|
| 115-10-6 | dimethyl ether | 3,000 ppm |
| 67-64-1 | acetone | 200 ppm |
| 123-86-4 | n-butyl acetate | 5 ppm |
| 108-10-1 | 4-methylpentan-2-one | 75 ppm |
| 108-88-3 | toluene | 67 ppm |
| 13048-33-4 | hexamethylene diacrylate | 3 mg/m³ |
| 1330-20-7 | xylene | 130 ppm |

| PAC-2 | | | |
|-------|-------|-------|
| 115-10-6 | dimethyl ether | 3800* ppm |
| 67-64-1 | acetone | 3200* ppm |
| 123-86-4 | n-butyl acetate | 200 ppm |
| 108-10-1 | 4-methylpentan-2-one | 500 ppm |
| 108-88-3 | toluene | 560 ppm |
| 13048-33-4 | hexamethylene diacrylate | 170 mg/m³ |
| 1330-20-7 | xylene | 920* ppm |

| PAC-3 | | | |
|-------|-------|-------|
| 115-10-6 | dimethyl ether | 7200* ppm |

(Contd. on page 5)
Trade name: 21013 Solaray UV Clearcoat Aerosol

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>5700* ppm</td>
</tr>
<tr>
<td>123-86-4</td>
<td>n-butyl acetate</td>
<td>3000* ppm</td>
</tr>
<tr>
<td>108-10-1</td>
<td>4-methylpentan-2-one</td>
<td>3000* ppm</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>3700* ppm</td>
</tr>
<tr>
<td>13048-33-4</td>
<td>hexamethylene diacrylate</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>2500* ppm</td>
</tr>
</tbody>
</table>

7 Handling and storage

- Handling:
- Precautions for safe handling: No special measures required.
- Information about protection against explosions and fires:
  - Do not spray on a naked flame or any incandescent material.
  - Keep ignition sources away - Do not smoke.
  - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles:
  - Observe official regulations on storing packagings with pressurized containers.
  - Information about storage in one common storage facility: Not required.
  - 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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    - At this time, the other constituents have no known exposure limits.

115-10-6 dimethyl ether

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEL</td>
<td>Long-term value: 1000 ppm</td>
</tr>
</tbody>
</table>
| 67-64-1 acetone

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 1187 mg/m³, 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
</tr>
</tbody>
</table>

123-86-4 n-butyl acetate

<table>
<thead>
<tr>
<th>Source</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td>Long-term value: 710 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 950 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 238 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>
**Trade name: 21013 Solaray UV Clearcoat Aerosol**

### 108-10-1 4-methylpentan-2-one

<table>
<thead>
<tr>
<th></th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
<td>Long-term value: 410 mg/m³, 100 ppm</td>
<td>Short-term value: 300 mg/m³, 75 ppm</td>
<td>Long-term value: 205 mg/m³, 50 ppm</td>
</tr>
<tr>
<td><strong>REL</strong></td>
<td></td>
<td>Short-term value: 307 mg/m³, 75 ppm</td>
<td>Long-term value: 82 mg/m³, 20 ppm</td>
</tr>
<tr>
<td><strong>TLV</strong></td>
<td></td>
<td>Long-term value: 205 mg/m³, 50 ppm</td>
<td>BEI</td>
</tr>
</tbody>
</table>

### 108-88-3 toluene

<table>
<thead>
<tr>
<th></th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
<td>Long-term value: 200 ppm</td>
<td>Ceiling limit value: 300; 500* ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*10-min peak per 8-hr shift</td>
<td></td>
</tr>
<tr>
<td><strong>REL</strong></td>
<td>Short-term value: 560 mg/m³, 150 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TLV</strong></td>
<td>Long-term value: 75 mg/m³, 20 ppm</td>
<td></td>
<td>BEI</td>
</tr>
</tbody>
</table>

### 13048-33-4 hexamethylene diacrylate

<table>
<thead>
<tr>
<th></th>
<th>WEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEEL</strong></td>
<td>Long-term value: 1 mg/m³</td>
</tr>
</tbody>
</table>

#### Ingredients with biological limit values:

**67-64-1 acetone**

<table>
<thead>
<tr>
<th></th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEI</strong></td>
<td>50 mg/L</td>
</tr>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

**108-10-1 4-methylpentan-2-one**

<table>
<thead>
<tr>
<th></th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEI</strong></td>
<td>1 mg/L</td>
</tr>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>MIBK</td>
</tr>
</tbody>
</table>

**108-88-3 toluene**

<table>
<thead>
<tr>
<th></th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEI</strong></td>
<td>0.02 mg/L</td>
</tr>
<tr>
<td>Medium:</td>
<td>blood</td>
</tr>
<tr>
<td>Time:</td>
<td>prior to last shift of workweek</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Toluene</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.03 mg/L</td>
</tr>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>Toluene</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.3 mg/g creatinine</td>
</tr>
<tr>
<td>Medium:</td>
<td>urine</td>
</tr>
<tr>
<td>Time:</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter:</td>
<td>o-Cresol with hydrolysis (background)</td>
</tr>
</tbody>
</table>

---

**Additional information:** The lists that were valid during the creation were used as basis.
Trade name: 21013 Solaray UV Clearcoat Aerosol

- 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.
    Store protective clothing separately.
    Avoid contact with the eyes and skin.
- Breathing equipment:
  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.
- Protection of hands:
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of gloves material
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:
  Safety glasses

Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    Form: Aerosol
    Color: According to product specification
    Odor: Characteristic
  - Odor threshold:
    Not determined.
- pH-value:
  Not determined.
- Change in condition
  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: -24.9 °C

(Contd. on page 8)
**Trade name: 21013 Solaray UV Clearcoat Aerosol**

- **Flash point:** -42 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 235 °C
- ** Decomposition temperature:** Not determined.
- ** Auto igniting:** Product is not selfigniting.
- ** Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.
- **Explosion limits:**
  - Lower: 1.2 Vol %
  - Upper: 18.6 Vol %
- **Vapor pressure at 20 °C:** 5,200 hPa
- **Density at 20 °C:** 0.76817 g/cm³
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not applicable.
- **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:**
  - Organic solvents: 86.3 %
  - VOC content: 65.21 %
  - 630.4 g/l / 5.26 lb/gl
- **Solids content:** 13.6 %
- **Other information** No further relevant information available.

**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** No further relevant information available.
- **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:** Irritant to skin and mucous membranes.


**Trade name:** 21013 Solaray UV Clearcoat Aerosol

**Safety Data Sheet**

 acc. to OSHA HCS

Printing date 03/14/2018  Reviewed on 06/21/2017

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**46.1.5.2**

- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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)**
    
    | Substance             | Category |
    |-----------------------|----------|
    | 108-10-1 4-methylpentan-2-one | 2B       |
    | 108-88-3 toluene      | 3        |
    | 1330-20-7 xylene      | 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:**
    No further relevant information available.
  - **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
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

  - **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 together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

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

**14 Transport information**

- **UN-Number**

  - **DOT, ADR, IMDG, IATA:** UN1950

(Contd. on page 10)
### UN proper shipping name
- **DOT** Aerosols, flammable
- **ADR** 1950 Aerosols
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

### Transport hazard class(es)

#### DOT
- **Class** 2.1
- **Label** 2.1

#### ADR
- **Class** 2 5F Gases
- **Label** 2.1

#### IMDG, IATA
- **Class** 2.1
- **Label** 2.1

### Packing group
- **DOT, ADR, IMDG, IATA** Void

### Environmental hazards:
- **Marine pollutant:** No

### Special precautions for user
- **EMS Number:** F-D.S-U
- **Stowage Code**
  - SW1 Protected from sources of heat.
  - SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

### Segregation Code
- **SG69** For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**DOT**

- **Quantity limitations**
  - On passenger aircraft/rail: 75 kg
  - On cargo aircraft only: 150 kg

**ADR**

- **Excepted quantities (EQ)**
  - Code: E0
  - Not permitted as Excepted Quantity

**IMDG**

- **Limited quantities (LQ)**
  - 1L
- **Excepted quantities (EQ)**
  - Code: E0
  - Not permitted as Excepted Quantity

**UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

### 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):**
  - 108-10-1 4-methylpentan-2-one
  - 108-88-3 toluene
  - 1330-20-7 xylene

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

- 115-10-6 dimethyl ether
- 67-64-1 acetone
- 123-86-4 n-butyl acetate
- 108-10-1 4-methylpentan-2-one
- 108-88-3 toluene
- 13048-33-4 hexamethylene diacrylate
- 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
- 947-19-3 1-Hydroxy cyclohexyl phenyl ketone
- 106917-31-1 1-acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethylpiperidine
- 1330-20-7 xylene

**TSCA new (21st Century Act) (Substances not listed)**

- Acrylated Urethane resin

**Proposition 65**

**Chemicals known to cause cancer:**

- 108-10-1 4-methylpentan-2-one
1330-20-7  xylene

· **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:**
  108-10-1  4-methylpentan-2-one
  108-88-3  toluene

· **Cancerogenity categories**

  · **EPA (Environmental Protection Agency)**
    67-64-1  acetone I
    108-10-1  4-methylpentan-2-one I
    108-88-3  toluene II
    1330-20-7  xylene I

  · **TLV (Threshold Limit Value established by ACGIH)**
    67-64-1  acetone A4
    108-88-3  toluene A4
    1330-20-7  xylene A4

  · **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**

  ![GHS02](image)  ![GHS04](image)  ![GHS07](image)  ![GHS08](image)

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  acetone
  hexamethylene diacrylate
  toluene
  4-methylpentan-2-one
  phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
  1-acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethylpiperidine

· **Hazard statements**
  H222  Extremely flammable aerosol.
  H280  Contains gas under pressure; may explode if heated.
  H315  Causes skin irritation.
  H319  Causes serious eye irritation.
  H317  May cause an allergic skin reaction.
  H351  Suspected of causing cancer.
  H361  Suspected of damaging fertility or the unborn child.
  H335-H336  May cause respiratory irritation. May cause drowsiness or dizziness.
  H373  May cause damage to organs through prolonged or repeated exposure.
Trade name: 21013 Solaray UV Clearcoat Aerosol

· **Precautionary statements**
  
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P270 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a poison center/doctor if you feel unwell.
P321 Specific treatment (see on this label).
P314 Get medical advice/attention if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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**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:** Environment protection department.
· **Contact:** Rita Joiner (rjoiner@semproducts.com)
· **Date of preparation / last revision:** 03/14/2018 / 14
· **Abbreviations and acronyms:**
  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 14)
Trade name: 21013 Solaray UV Clearcoat Aerosol

- 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
- BEI: Biological Exposure Limit
- Flam. Aerosol 1: Aerosols – Category 1
- Press. Gas: Gases under pressure – Compressed gas
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 2: Carcinogenicity – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.