1 Identification of the substance/mixture and of the company

· Product identifier
  · Trade name: SU-8 2000 Thinner
  · Product number: G010100
  · CAS Number: 120-92-3
  · EC number: 204-435-9
  · Index number: 606-025-00-9
· Application of the substance / the preparation: Thinner, Diluent

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier: MicroChem Corp.
    90 Oak Street
    P.O. Box 426
    Newton, MA  02464-0002  USA
  · Information department:
    Product Safety
    Email: productsafety@microchem.com
  · Emergency telephone number:
    MicroChem Corp :  617-965-5511
    Chemtrec USA Emergency :  800-424-9300
    Chemtrec International Emergency :  703-527-3887

2 Composition/information on ingredients

· Chemical characterization: Substances
  · CAS No. Description
    120-92-3 cyclopentanone
  · Identification number(s)
    · EC number: 204-435-9
    · Index number: 606-025-00-9

3 Hazards identification

· Classification of the substance or mixture
  · GHS02 Flame
    H226 Flammable liquid and vapour.
  · GHS07
    H315 Causes skin irritation.
    H319 Causes serious eye irritation.

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

(Contd. on page 2)
Trade name: SU-8 2000 Thinner

- **Hazard pictograms**
  
  ![Hazard pictograms](image)
  
  GHS02  GHS07

- **Signal word** Warning
- **Hazard statements**
  
  H226 Flammable liquid and vapour.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.

- **Precautionary statements**
  
  P101 If medical advice is needed, have product container or label at hand.
  P102 Keep out of reach of children.
  P103 Read label before use.
  P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

4 First aid measures

- **After inhalation:**
  
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- **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:** Seek immediate medical advice.

5 Firefighting measures

- **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture** No further relevant information available.
34.0.3

- **Protective equipment:** Wear SCBA.

### 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:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents.

- **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**
    - Ensure good ventilation/exhaust at the workplace.
    - Prevent formation of aerosols.
  - **Information about protection against explosions and fires:**
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.

- **Storage:**
  - **Requirements to be met by storerooms and containers:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Keep container 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.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Keep away from food and beverages.
    - Immediately remove all soiled and contaminated clothing.
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes and skin.
  - **Respiratory equipment:**
    - In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA.
  - **Protection of hands:**
    - **Protective gloves**
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
      - **Material of gloves** Nitrile rubber, NBR
9 Physical and chemical properties

- **General Information**
  - **Appearance:**
    - Form: Fluid
    - Color: Clear
    - Odor: Characteristic
  - Odour threshold: Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - Melting point/Melting range: -51.3°C (-60 °F)
  - Boiling point/Boiling range: 130°C (266 °F)

- **Flash point:** 30°C (86 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 430°C (806 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Not determined.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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

- **Vapor pressure at 50°C (122 °F):** <200 hPa (<150 mm Hg)

- **Density at 20°C (68 °F):** 0.9502/20°C g/cm³ (7.929/166.9°C lbs/gal)

- **Relative density**
  - Not determined.

- **Vapour density**
  - Not determined.

- **Evaporation rate**
  - Not determined.

- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

- **Segregation coefficient (n-octanol/water):** Not determined.

- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
  - Organic solvents: 0.0 %

- **Solids content:** 0.9 %
Trade name: SU-8 2000 Thinner

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
  - Primary irritant effect:
    - on the skin: Irritant to skin and mucous membranes.
    - on the eye: Irritating effect.
    - Sensitization: No sensitizing effects known.

12 Ecological information

- 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.
- Additional ecological information:
  - General notes:
    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.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made in accordance with Federal, State, and Local regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA: UN2245

- UN proper shipping name
  - DOT, IMDG, IATA: CYCLOPENTANONE
  - ADR: 2245 CYCLOPENTANONE
### 34.0.3

#### Transport hazard class(es)

- **DOT, IMDG, IATA**

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
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<tbody>
<tr>
<td>3</td>
<td>Flammable liquids</td>
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- **ADR**

<table>
<thead>
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<th>Class</th>
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<tbody>
<tr>
<td>3</td>
<td>Flammable liquids</td>
</tr>
</tbody>
</table>

#### Packing group

- **DOT, ADR, IMDG, IATA** III

#### Environmental hazards:

- **Marine pollutant:** No
- **Special precautions for user**
  - Warning: Flammable liquids
- **Danger code (Kemler):** 30
- **EMS Number:** F-E,S-D

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- **UN "Model Regulation":** UN2245, CYCLOPENTANONE, 3, III

### 15 Regulatory information

#### Sara

- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is not listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.

#### Proposition 65

- **Chemicals known to cause cancer:** Substance is not 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.

· Carcinogenic categories
  · EPA (Environmental Protection Agency)
    Substance is not listed.
  · IARC (International Agency for Research on Cancer)
    Substance is not listed.
  · NTP (National Toxicology Program)
    Substance is not listed.
  · TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.
  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    Substance is not listed.
  · OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

· GHS label elements
  The substance is classified and labelled according to the Globally Harmonized System (GHS).
  · Hazard pictograms

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

· Signal word Warning

· Hazard statements
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  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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 MSDS: Product safety department
· Contact: Mr. Bedet
**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)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- 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)