

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** SU-8 2000 Thinner
- **Article number:** G010100
- **CAS Number:**  
120-92-3
- **EC number:**  
204-435-9
- **Index number:**  
606-025-00-9
- **Registration number** Cyclopentanone (CAS 120-92-3): 01-2119495595-21-0000
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU16 Manufacture of computer, electronic and optical products, electrical equipment
- **Application of the substance / the mixture** Thinner, Diluent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Kayaku Advanced Materials  
200 Flanders Road  
Westborough, MA 01581  
Tel: (617) 965-5511  
Fax: (617) 965-5818
- **Further information obtainable from:**  
Product Safety  
Email: [productsafety@kayakuAM.com](mailto:productsafety@kayakuAM.com)
- **1.4 Emergency telephone number:**  
Kayaku Advanced Materials : 617-965-5511  
Chemtrec USA Emergency : 800-424-9300 (24 hr)  
Chemtrec International Emergency : 703-527-3887 (24 hr)

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.

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 · **Hazard pictograms**


GHS02 GHS07

 · **Signal word** Warning

 · **Hazard statements**
*H226 Flammable liquid and vapour.*
*H315 Causes skin irritation.*
*H319 Causes serious eye irritation.*

 · **Precautionary statements**
*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
*P303+P361+P353 IF ON SKIN (or hair): 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.*
*P403+P235 Store in a well-ventilated place. Keep cool.*
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

 · **2.3 Other hazards**

 · **Results of PBT and vPvB assessment**

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

 · **3.1 Chemical characterisation: Substances**

 · **CAS No. Description**

120-92-3 Cyclopentanone

 · **Identification number(s)**

 · **EC number:** 204-435-9

 · **Index number:** 606-025-00-9

**SECTION 4: First aid measures**

 · **4.1 Description of 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:**
*Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.*

 · **After swallowing:** *If symptoms persist consult doctor.*

 · **4.2 Most important symptoms and effects, both acute and delayed** Dizziness

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- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - Alcohol resistant foam
  - Fire-extinguishing powder
  - Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**
  - Water with full jet
  - Water
- **5.2 Special hazards arising from the substance or mixture**
  - Containers may explode due to pressure increase when container is exposed to extreme heat. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 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
- **6.4 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.

## **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**
  - Ensure good ventilation/exhaust at the workplace.
  - Prevent formation of aerosols.
  - Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Use explosion-proof apparatus / fittings and spark-proof tools.
  - Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and containers:** Store in a cool location.
- **Information about storage in one common storage facility:**
  - Do not store together with oxidising and acidic materials.
  - Do not store together with alkalis (caustic solutions).

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- **Further information about storage conditions:**  
 Store in cool, dry conditions in well sealed containers.  
 Protect from heat and direct sunlight.  
 Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **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 protection:**  
 In case of low exposure use cartridge respirator. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**  
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Liquid
- **Colour:** Clear
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

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· <b>Change in condition</b> Melting point/freezing point:	-51.3 °C
Initial boiling point and boiling range:	130 °C
· <b>Flash point:</b>	30 °C
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Ignition temperature:</b>	430 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b> Lower:	Not determined.
Upper:	Not determined.
· <b>Vapour pressure at 50 °C:</b>	<200 hPa
· <b>Density at 20 °C:</b>	0.9502/20°C g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	100 %
Solids content:	0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
  Danger of polymerisation.  
  Possible formation of peroxide.
- **10.4 Conditions to avoid**  
  Heat, flames and sparks. Extremes of temperature and direct sunlight.  
  Contact with incompatible materials.
- **10.5 Incompatible materials:** Strong Oxidizing Agents, Strong Acids, Strong Bases
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

### · **LD/LC50 values relevant for classification:**

#### **120-92-3 Cyclopentanone**

Oral	LD50	1180 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>19.5 mg/l (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### · **12.1 Toxicity**

#### · **Aquatic toxicity:**

#### **120-92-3 Cyclopentanone**

EC50/48 h	100 mg/l (daphnia magna)
EC50/72 h	>100 mg/l (scenedesmus subspicatus)
LC50/96 h	>100 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Disposal must be made in accordance with International, National, and regional regulations.

 · **Uncleaned packaging:**

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

### SECTION 14: Transport information

 · **14.1 UN-Number**

 · **ADR, IMDG, IATA**

UN2245

 · **14.2 UN proper shipping name**

 · **ADR**

2245 CYCLOPENTANONE

 · **IMDG, IATA**

CYCLOPENTANONE

 · **14.3 Transport hazard class(es)**

 · **ADR, IMDG, IATA**

 · **Class**

3 Flammable liquids.

 · **Label**

3

 · **14.4 Packing group**

 · **ADR, IMDG, IATA**

III

 · **14.5 Environmental hazards:**

 · **Marine pollutant:**

No

 · **14.6 Special precautions for user**

Warning: Flammable liquids.

 · **Danger code (Kemler):**

30

 · **EMS Number:**

F-E, S-D

 · **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

 · **Transport/Additional information:**

 · **ADR**

 · **Limited quantities (LQ)**

5L

 · **Transport category**

3

 · **Tunnel restriction code**

D/E

 · **UN "Model Regulation":**

UN2245, CYCLOPENTANONE, 3, III

### SECTION 15: Regulatory information

 · **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

 · **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction:** 3

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

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**SECTION 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.*

· **Classification according to Regulation (EC) No 1272/2008**

*Art. 9(1) of Regulation (EC) No. 1272/2008 was used for classification purposes.*

· **Department issuing SDS:** Product safety department

· **Contact:** Tom Cole, EHS Manager (tcole@kayakuAM)

· **Revision History:**

*The manufacturer's information in Section 1, the product hazard information in Section 2 and the component hazard information in Section 3 have been updated.*

· **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*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 3: Flammable liquids – Category 3*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*