SECTION 1. CHEMICAL IDENTIFICATION

CHEMICAL NAME: Cyclopentanone
TRADE NAME: SU-8 2000 Thinner
             Resist Thinner
PRODUCT #:     G010100

SECTION 2. COMPOSITION

HAZARDOUS
INGREDIENTS: Cyclopentanone (CAS: 120-92-3); 99+%  

SECTION 3. HAZARD DATA

INFLAMMABILITY: Flammable liquid.
SKIN CONTACT: Irritant.
EYE CONTACT: Severe eye irritant.
INGESTION: Harmful if ingested.
INHALATION: Harmful if inhaled.
MUTAGENICITY: Not known to be mutagenic.
CARCINOGENICITY: Not considered carcinogenic by NTP, IARC, ACGIH and OSHA
TARGET ORGANS: Eyes, Epidermis, Nervous System

SECTION 4. FIRST AID MEASURES

INHALATION: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

INGESTION: If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

SKIN CONTACT: In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

EYE CONTACT: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, alcohol foam, and universal foam.

SPECIAL FIRE FIGHTING PRECAUTIONS: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Remove all ignition sources if it can be done safely.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Product will burn under fire conditions. Containers may explode (due to build-up of pressure) when exposed to extreme heat. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail.

SECTION 6. ACCIDENTAL RELEASE PROCEDURES

EVACUATION PROCEDURES & SAFETY: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

CLEANUP & DISPOSAL OF SPILL: Absorb with an inert absorbent. Sweep up and place in an appropriate closed container (see Section 7). Clean up residual material by washing area with water. Collect washings for disposal.

ENVIRONMENTAL & REGULATORY REPORTING: Do not flush to drain. If required proper authorities should be notified.

SECTION 7. STORAGE AND HANDLING PRECAUTIONS

STORAGE: Store in tightly closed container in a cool, dry, well-ventilated environment away from direct sunlight and ignition sources. Recommended container materials are polyethylene or glass.

HANDLING: Keep away from heat, sparks, and flames. Use only with mechanical exhaust. Do not contact with skin, eyes, and clothing. Severe eye irritant. Avoid prolonged or repeated contact with skin. Do not breathe vapors or mist. Wear heavy rubber gloves. Wash with soap and water after handling. Have safety shower and eye wash available.
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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY PROTECTION: 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.

VENTILATION: General area dilution/exhaust ventilation.

SKIN PROTECTION: Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing.

EYE PROTECTION: Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

SECTION 9. PHYSICAL AND CHEMICAL DATA

APPEARANCE: Colorless to pale yellow liquid
ODOR: Slightly sweet
BOILING POINT: 130 °C (266 °F)
SPECIFIC GRAVITY: 0.95 @ 20 °C (68 °F)
VAPOR PRESSURE: 8.7 mm @ 20 °C (68 °F)
VAPOR DENSITY: 2.3 (air=1)
H₂O SOLUBILITY: Slightly soluble
% VOLATILES: 100% by wt
FLASH POINT: 30 °C (86 °F) TCC
AUTOIGNITION TEMP: 550 °C (1022 °F)
FLAMMABILITY LIMITS: 1.3 lower (vol/vol%)
unk. upper

SECTION 10. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Strong Oxidizing Agents, Strong Bases, Strong Acids, Strong Reducing Agents, Iron, Hydrazine
HAZARDOUS POLYMERIZATION: May occur. Avoid extreme pH.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Oxides of carbon.

SECTION 11. TOXICITY HAZARDS

Acute Eye Irritation: eye irritation, 100mg, rabbit. Severely irritating.
Acute Skin Irritation: skin irritation, 500mg, rabbit. Mildly irritating.
Acute Dermal Toxicity: LD₅₀ – lethal dose 50% of test species, >5000 mg/kg, rabbit.
Acute Respiratory Irritation: no test data found for product.
Acute Inhalation Toxicity: no test data found for product.
Acute Oral Toxicity: LD₅₀ – lethal dose 50% of test species, 1180 mg/kg, rat.

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SECTION 12. ECOLOGICAL DATA

No data available at this time

SECTION 13. DISPOSAL CONSIDERATIONS

Comply with applicable local, state or international regulations regarding the proper disposal of this material and/or containers.

SECTION 14. TRANSPORTATION INFORMATION

HAZARD CLASSIFICATION: Flammable Liquid
SHIPPING NAME: Cyclopentanone
UN NUMBER: UN 2245
PACKING GROUP III

SECTION 15. REGULATORY INFORMATION

EUROPEAN INFORMATION

EINECS LISTED
EC Nos: Cyclopentanone 204-435-9

RISK & SAFETY PHRASES
R10 Flammable
R36/38 Irritating to eyes and skin
S2 Keep out of the reach of children
S23 Do not breathe gas/fumes/vapour/spray

INDICATIONS OF DANGER
Xi Irritant

US AND INTERNATIONAL INFORMATION

HAZARDOUS LISTINGS: All ingredients appear on the TSCA Inventory of Chemical Substances, Canadian DSL, EINECS, and the Japan Hazardous Chemical Listing.

SARA Title III: This product IS NOT subject to SARA Title III, Section 313 Reporting Requirements.

Calif. SCAQMD Rule 443.1 VOC's: 950 g/l
SECTION 16. ADDITIONAL PRECAUTIONS AND COMMENTS:

National Fire Protection Association Hazard Ratings – NFPA:

2 Health Hazard Rating – Moderate
3 Flammability Rating – Serious
0 Instability Rating - Minimal

To the best of our knowledge, the above information is believed to be accurate but does not claim to be all-inclusive and is intended to be used only as a guide. The supplier makes no warranty of any kind, expressed or implied, concerning the use of this product and shall not be held liable for any damage resulting from handling or from contact with the above product. User assumes all risks incident to its use.

MSDS Revision Information:

A) Section 8 – Revised Respiratory Protection information.