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MATERIAL SAFETY DATA SHEET

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SECTION 1. CHEMICAL IDENTIFICATION -----

CHEMICAL NAME: TRADE NAME:

Organic Solvent Mixture NANO™ T Thinner

PRODUCT #:

Positive Radiation Thinner

G013100

SECTION 2. COMPOSITION-----

HAZARDOUS

INGREDIENTS:

Cyclopentanone (CAS: 120-92-3); 80-90%

Tetrahydrofurfuryl alcohol (CAS: 97-99-4); 10-20%

SECTION 3. HAZARD DATA-----

INFLAMMABILITY:

Flammable liquid.

SKIN CONTACT:

May cause skin irritation.

EYE CONTACT:

May cause serious damage to the eyes.

INGESTION:

May be harmful if swallowed.

INHALATION:

Irritating to mucous membranes and upper respiratory tract.

MUTAGENICITY:

Not known to be mutagenic.

CARCINOGENICITY:

Not considered carcinogenic by NTP, IARC and OSHA

TARGET ORGANS:

Eyes, Respiratory Tract

SECTION 4. FIRST AID MEASURES-----

INHALATION:

If inhaled, remove to fresh air. If patient has stopped breathing,

give artificial respiration. If breathing is difficult give oxygen.

Contact physician immediately.

INGESTION:

Call local poison control center for assistance. Get medical attention

immediately.

SKIN CONTACT:

Rinse with water for 15 minutes while removing contaminated

clothing and shoes. Wash affected area with soap and water. Wash

contaminated clothing.

EYE CONTACT:

Rinse immediately with water, flush for 15 min. lifting eyelids

frequently. Get emergency medical assistance.

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SECTION 5. FIRE FIGHTING MEASURES----

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING

Dry chemical, carbon dioxide, and foam.

PRECAUTIONS:

Wear self-contained breathing apparatus (SCBA) and personal protective equipment to prevent contact with skin and eyes.

UNUSUAL FIRE OR EXPLOSION HAZARDS:

Vapor may travel considerable distance to source of ignition and flash back. Heat will build pressure and may rupture closed containers. Forms explosive mixtures in air. Keep containers cool with water spray.

SECTION 6. ACCIDENTAL RELEASE PROCEDURES -----

Evacuate Area.

Eliminate all ignition sources.

Wear self-contained breathing apparatus (SCBA), rubber boots, and heavy rubber gloves. Avoid eye or skin contact. Cover with dry absorbent material and collect in closed container for disposal using non-sparking tools. Ventilate area and wash spill sites after material pickup is complete, rinse with water. All clean up should be carried out in accordance with federal, state, and local regulations. If required proper authorities should be notified.

SECTION 7. STORAGE AND HANDLING PRECAUTIONS-----

STORAGE:

Store in tightly closed container in a cool environment away from

direct sunlight.

HANDLING:

Highly flammable. Keep away from heat, sparks, and flames.

Take precautions against static discharge.

Do not breathe vapors.

Use only with mechanical exhaust.

Do not contact with skin, eyes, and clothing.

Severe eye irritant.

Avoid prolonged or repeated exposure.

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:

In case of spills, use of self-contained breathing apparatus (SCBA)

is recommended.

VENTILATION: SKIN PROTECTION: EYE PROTECTION:

Local or general mechanical ventilation is required. Heavy rubber gloves are highly recommended.

Safety goggles are highly recommended.

SECTION 9. PHYSICAL AND CHEMICAL DATA-----

APPEARANCE:

Colorless to pale yellow liquid

ODOR:

Slightly sweet

BOILING POINT:

132-178 °C (268-352 °F)

SPECIFIC GRAVITY:

0.962

VAPOR PRESSURE:

8.7 mm @ 20 °C (68 °F)

VAPOR DENSITY: H₂O SOLUBILITY: 2.3 (air=1)

% VOLATILES:

40-50% @ 20 °C, by wt.

EVAPORATION RATE:

100% by wt

1 (BuAc=1) 30 °C (27 °F) TCC

FLASH POINT: AUTOIGNITION TEMP:

550 °C (525 °F)

EXPLOSION LIMITS:

1.3 lower

unk. upper

SECTION 10. REACTIVITY DATA ---

STABILITY:

Stable

INCOMPATIBILITY:

Strong Oxidizing Agents, Strong Bases, Strong

Reducing Agents

HAZARDOUS POLYMERIZATION:

HAZARDOUS COMBUSTION OR

DECOMPOSITION PRODUCTS:

Will not occur

Carbon Monoxide, Carbon Dioxide

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SECTION 11. TOXICITY HAZARDS-----

ACUTE EFFECTS:

May be harmful if swallowed, inhaled, or absorbed through the skin.

Irritating to eyes and respiratory tract. May cause serious damage to the eyes.

Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract.

Eye and skin contact can cause headache, nausea, vomiting, dizziness, weakness, drowsiness, narcosis, and loss of coordination in humans.

Causes moderate skin irritation in rabbits.

Prolonged and/or repeated exposure can cause absorption of harmful amounts of material.

ORAL:

LD50 (rat):

2000 mg/kg as Cyclopentanone

LD50 (rat)

1600 mg/kg as Tetrahydorfurfuryl alcohol

IRRITATION:

skin:

500 mg mild

eves:

100 mg severe

TLV:

ACGIH(TWA)

none established

PEL:

OSHA (8hr TWA)

none established

SECTION 12. ECOLOGICAL DATA-----

No data available at this time

SECTION 13. DISPOSAL CONSIDERATIONS-----

Burn in an EPA-licensed chemical incinerator equipped with an afterburner and scrubber at an approved waste disposal facility. Observe all federal, state, and local environmental regulations.

SECTION 14. TRANSPORTATION INFORMATION----

HAZARD CLASSIFICATION:

Flammable Liquid
Cyclopentanone Mixture

SHIPPING NAME: UN NUMBER:

UN 2245

PACKING GROUP

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SECTION 15. REGULATORY INFORMATION-----

HAZARDOUS LISTINGS: All ingredients appear on the TSCA Inventory of

Chemical Substances, 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: 962 g/l; vapor pressure 8.7 mm Hg @ 20 °C

SECTION 16. ADDITIONAL PRECAUTIONS AND COMMENTS-----

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.