

SU-8 Developer

Ingredient:

1-Methoxy-2-propyl acetate 98-100%

Synonyms

- Organic solvent solution
- Propylene glycol monomethyl ether acetate

Physical Data

- Vapour pressure: 3.7 mm Hg @ 20° C (68° F)
- H₂O solubility: Appreciable
- % volatile: 100% by wt
- Evaporation rate: 0.39 (BuAc=1)
- Autoignition temp: 354° C (670° F)
- Explosion Limits:
 - Lower: 1.3%
 - Upper: 13.1%
- Boiling point: 150° C (302° F)
- Specific gravity: 0.969
- Odour: Fruity, ester-like
- Appearance: Viscous pale yellow to yellow liquid

Hazardous Decomposition

- Carbon Monoxide
- Carbon Dioxide

Incompatibles

Oxidizing Agents
Strong Acids
Strong Alkali

Protective Equipment



Eyes

- Safety goggles are recommended.
- Eye bath should be present nearby.

Skin

- Impervious butyl or nitrile gloves are recommended.
- Safety shower should be present nearby.

Respiratory

- In case of large spill, use of self-contained breathing apparatus (SCBA) is recommended as narcosis may occur.

Special Precautions

- **Storage:**

1. Store in original, well closed container in a cool dry place.
2. Keep away from heat, sparks, and flames.

- **Handling:**

1. Keep away from heat, sparks, and flames.
2. Avoid breathing vapours.
3. Avoid contact with skin, eyes, and clothing.
4. Wear impervious butyl or nitrile gloves.
5. Wash with soap and water after handling.

- **Ventilation:**

1. Use with adequate ventilation.
2. General mechanical ventilation is sufficient under normal conditions.

- **Engineering Controls:**

1. Have available safety shower and eye wash.

Toxicity

Toxicity Data

- | | | |
|-----------|------|-------------------------|
| • ORL RAT | LD50 | 8500 mg/kg |
| • IHL | LC50 | >4350 mg/m ³ |
| • SKN RBT | LD50 | >5000 mg/kg |

Target Organs:

- Nervous system
- Respiratory Tract

Health

Effects:

- **Inhalation:** Vapour causes irritation of the respiratory tract with coughing and chest discomfort. Headache, weakness and incoordination, nausea, vomiting, diarrhea, dizziness, and drowsiness may occur. Vapour mist is irritating to the mucous membranes and upper respiratory tract. May be harmful if inhaled.
- **Eyes:** Eye contact: Moderate temporary irritation. May cause burning, tearing, redness or swelling.
- **Skin:** Skin contact: May cause skin irritation. No evidence of harmful effects of skin absorption. Readily absorbed through the skin. No significant signs of any health hazard are expected to occur through skin absorption. May be harmful if absorbed through skin.
- **Ingestion:** Slightly toxic. Headache, weakness and incoordination may occur. Nausea, vomiting, diarrhea, dizziness, and drowsiness may occur. May be harmful if swallowed.
- **Note:** Prolonged and/or repeated exposure can cause gastric or **nervous system effects**. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

First Aid:

- **Inhalation:** Remove to fresh air. If patient has stopped breathing, give artificial respiration. Contact physician immediately.
- **Eyes:** Rinse immediately with water, flush for 15 min. Contact a physician.
- **Skin:** Rinse with water. Remove contaminated clothing and shoes. Wash skin with soap and water.
- **Ingestion:** If substantial amounts are swallowed, have patient drink large amounts of water and **induce vomiting**. Contact a physician immediately.

PEL/TLV

TLV

- **TWA** 100 ppm suggested.

Fire Hazard Data

- **Flash point:** 46° C (114° F)
- **Extinguishing Media:** Water, dry chemical, carbon dioxide, foam.

- **Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and personal protective equipment when exposed to products of combustion.
- **Unusual Fire Hazards:** None

Disposal

Spill Procedures:

- Avoid eye or skin contact.
- Eliminate ignition sources.
- Cover large quantities with absorbent material collect in closed container for disposal.
- All clean-up should be carried out in accordance with federal, state, and local regulations.
- If required proper authorities should be notified.

Disposal:

- Burn in a chemical incinerator in an approved waste disposal facility under federal, state, and local regulations.