

Material Safety Data Sheet

QUICK IDENTIFIER
Common Name: (used on label and list)

May be used to comply with OSHA's Hazard Communication Standard,
29CFR 1910.1200. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name **Research Products International Corp.**
Address **410 N. Business Center Drive**
City, State, and ZIP **Mt. Prospect, IL 60056**
Emergency Telephone No. **1-708-635-7330**
Other Information Calls **1-708-635-7330**
Date Prepared **12-17-87**
Signature of Person Responsible for Preparation (Optional)

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
Toluene	200ppm	100ppm	N/A	> 99	108-88-3
Scintillation Fluors	N/A	N/A	N/A	< 1	N/A

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point **230-232°F**
Specific Gravity (H₂O=1) **0.725**
Vapor Pressure (mm Hg) **24@20°C**
Vapor Density (Air = 1) **3.2**
Evaporation Rate (n-butyl-Acet=1) **1.90**
Solubility in Water **Not Soluble**
Reactivity in Water
Appearance and Odor **Liquid, Slight Bluish Tint
Characteristic Toluene Odor**
Melting Point

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point **45° F. C.**
Method Used **T.C.C.**
Flammable Limits in Air % by Volume **1.0**
LEL Lower **7.0**
UEL Upper
Auto-Ignition Temperature **N/A**
Extinguisher Media **Foam, CO₂, Dry Chemical**

Special Fire Fighting Procedures **Small fire: Dry chemicals; CO₂; Foam**
Use air-supplied rescue equipment for enclosed areas.

Unusual Fire and Explosion Hazards **Flammable Liquid. Store in a cool, dry area. Keep away from heat, sparks or open flame.**

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability ☐ Unstable ☒ Stable ☐ Conditions ☒ to Avoid ☐ May ignite by sparks

Incompatibility
(Materials to Avoid) Strong oxidizers

Hazardous Decomposition Products Thermal Decomposition:
In air yields carbon monoxide and/or carbon dioxide

Hazardous Polymerization ☐ May Occur ☐ Conditions ☒ Will Not Occur ☒ to Avoid

SECTION 6 - HEALTH HAZARDS

1. Acute Exposure may cause nausea, vomiting and light headedness 2. Chronic Over exposure effects may include kidney and liver damage

Signs and Symptoms of Exposure Eye irritation: Burning and tearing. Skin irritation: Absorbed thru skin
Toxic by inhalation. Loss of coordination by ingestion.

Misuse leads to liver, kidney, and brain damage.

Medical Conditions Generally Aggravated by Exposure Nervous system depression (Dizziness, Fatigue). Irregular heart beats.
Pre-existing heart condition may be aggravated as well as people with impaired lung conditions.

Chemical Listed as Carcinogen or Potential Carcinogen National Toxicology Program Yes ☐ No ☒ I.A.R.C. Monographs Yes ☐ No ☒ OSHA Yes ☐ No ☒

Leads to chromosome effects

Emergency and First Aid Procedures If victim is drowsy/unconscious, place on left side with head down. If victim is conscious, induce vomiting with finger or soapy water.

ROUTES OF ENTRY

1. Inhalation Seek medical attention. Toxic - move to fresh air. If unconscious give artificial respiration/Administer O₂
2. Eyes Seek medical attention. Flush with H₂O
3. Skin Seek medical attention. Absorbed thru skin. Remove contaminated clothing. Cleanse with mild soap and water.
4. Ingestion Seek medical attention. Toxic - induce vomiting if conscious. Do not leave victim unattended.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Use impermeable gloves, eye protection. Keep container tightly closed. Keep away from heat, sparks, open flame.

Other Precautions Adequate ventillation. Source of clean H₂O should be available.

Steps to be Taken in Case Material is Released or Spilled Adequate ventillation. Use respirator or gas mask. Stay upwind, away from spill. For small spills use absorbant pads. Call EPA if larger amount (800) 424-8802.

Waste Disposal Methods (Consult federal, state, and local regulations) Keep out of sewers, drains, waterways. Dispose of in accordance with all local, state and federal regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) NIOSH approved respirator, gas mask with cartridges and cannister

Ventilation ☐ Local Exhaust ☐ Mechanical (General) ☐ Special ☐ Other ☐
Face velocity >60fpm Explosion proof equipment
Protective Gloves Impermeable Eye Protection Chemical splash goggles

Other Protective Clothing or Equipment Lab coat, protective gloves, fume hood

Work/Hygienic Practices

DO NOT MOUTH PIPETTE. Keep away from skin and eyes. Wash thoroughly after handling.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.