

MATERIAL SAFETY DATA SHEET

Section I:

Manufacturer's Name: Res-Tek Inc
Address: 110 Riverside Drive
Cartersville, GA 30120
Telephone: (888) 737-8351
Fax: (770) 427-4037
Chemical Name: **N,N-Dimethyl-p-Toluidine**
Synonym: **N,N,4-Trimethylbenzenamine**
CAS Number: 99-97-8
RSA Product Code: 576
Chemical Family: Alkyl Toluidine
Chemical Formula: C₉H₁₃N

Section II: Hazardous Ingredients:

N,N-Dimethyl-p-Toluidine	>99%
mono-Methyl-p-Toluidine	0.5 - 0.7%
ortho & meta isomers	0.1%
p-Toluidine	absent

Section III: Physical Data:

Formula Weight: 135.21
Boiling Point: 215°C; 419°F
Specific Gravity: 0.935 at 15°C
Percent Volatile: 100
Vapor Pressure: 5.0mmHg @162°F(72°C)
Vapor Density: 4.6 (air = 1)
Evaporation Rate: approx. 0.5 (Butyl Acetate = 1)
Solubility in Water: insoluble
Appearance and Odor: light yellow liquid with a sweet odor. Darkens on exposure to light & moisture.

Section IV: Fire and Explosion Hazard Data:

Flash Point: 181°F (83°C)closed cup
Flammable Limits in air: NA
Autoignition Temperature: NA
Extinguishing Media: use water, Carbon dioxide, polymer foam, Alcohol

Special Fire Fighting Procedures:

Avoid inhalation of vapors. Avoid skin contact with material. Wear self-contained breathing apparatus. May flash back.

Unusual Fire and Explosion Hazards:

Decomposes when heated to form highly irritating vapors.

Section V: Health Hazard Data:

RTECS:	XU5803000
LD50 oral rat:	1650 mg/kg, slightly toxic
LD50 skin, rat:	>2000mg/kg, slightly toxic.
LC50 inhalation rat(4 hours):	2540ppm, moderately toxic
Eye:	FHSA score 6.4/110, slightly irritating
TLV:	not established

Effects of Overexposure:

This product is rapidly absorbed through the skin. Inhalation is an important route of entry into the body. It is irritating to eyes, skin and mucous membranes. Symptoms include: dizziness, headache, & nausea.

Routes of entry:

Skin absorption, inhalation.

Emergency and First Aid:(not to be construed as a medical recommendation)

General: Immediately flush area with copious amounts of water. When exposed to vapors, immediately remove victim to fresh air.

Moderate Exposure: Remove from exposure. Breathe a lot of fresh air. Remove contaminated shoes and discard. Remove contaminated clothing and wash before re-use. Wash affected areas with abundant amounts of cool, soapy water.

Extensive Exposure: May aggravate cardiovascular conditions, respiratory conditions or skin conditions. Remove to clean area and immediately notify physician.

Eyes: Irrigate thoroughly with water.

Lungs: this material may cause high methemoglobin levels in the blood. Symptoms include, headaches, dizziness, bluish lips and fingernails. Remove immediately to fresh air. Consult a physician

Ingestion: Harmful if swallowed. Target organs: liver, central nervous system, blood, skin. Consult physician.

Skin: Immediately wash with a lot of soap and water. Get medical attention if symptoms persist.

Note to Physician: The presence of this material in the body leads to methemoglobin formation, which, in sufficient levels, causes cyanosis. This is reversed spontaneously after termination of exposure. Treat cyanosis with supportive measures such as bed rest and oxygen inhalation. Thoroughly cleanse the entire contaminated area of the body.

If extensive cyanosis is present treat with methylene blue and vitamin B-12.

Section VI: Reactivity Data:

Stability:	Stable, Avoid excessive heat
Incompatibility:	Strong Oxidizing Agents, Acids, bleach
Hazardous decomposition products:	CO,CO ₂ , Nitrogen oxides
Hazardous polymerization:	will not occur

Section VII: Spill or Leak Procedures:

Steps to be taken in case material is released or spilled:

Cut off any source of ignition. Wear protective breathing apparatus and avoid breathing vapors. Wear skin protective and shoe protective equipment. Ventilate area. Small spills may be absorbed with diatomaceous earth. Vacuum up puddles or absorb with diatomaceous earth, or oil absorbing material and pick up for disposal.

Waste Disposal Method:

Vapors may be vented if in accord with all applicable regulations. Liquids and absorbants may be incinerated if mixed with a combustible solvent and burned in a chemical incinerator equipped with an afterburner and scrubber.

Section VIII: Special Protection Information:

Respiratory: If respiratory protection is needed, an appropriate full face NIOSH-approved respirator for organic vapors or mists should be worn. If respirators are used, a program should be established to assure compliance with OSHA Standard 29 CFR 1910.134.

Ventilation: Mechanical and local. Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

Protective Gloves: Rubber

Eyes : Goggles & Full face shield. A safety shower, an eye bath, and washing facilities should be available. Wash thoroughly after handling.

Other: Apron and rubber shoes to prevent contamination of clothing.

Container Disposal: Do not reuse containers. Puncture and destroy containers before disposal.

Res-Tek RT-LTA (Low Temperature Additive)

Section IX: Special Precautions:

Storage: Store in a cool, dry well-ventilated place out of direct sunlight. Store in tightly sealed drums. Open carefully. Temperature range of storage: 40°-90°F (5-32°C)

Handling: Material darkens on exposure to air, light and moisture.

Shipping: TSCA Listed
HMIS Rating:
Health: 2 [Moderate hazard]
Flammability: 1 [Slight Hazard]
Reactivity: 0 [Minimal Hazard]
Personal Protection: H [splash goggles, gloves, synthetic apron, vapor respirator]

Freight Classification: Toxic Liquid,organic nos,6.1,UN2810,III
Export Sea: IMDG Code: pg 6270-1
Air: Toxic Liquid,organic nos,6.1,UN2810,III
Toxic

Precautionary label: Danger!
Do not breathe vapors. May irritate lungs. Do not get in eyes, on skin or clothing. May cause irritation. Use only with adequate ventilation.

Note: Since emptied containers contain product residue, follow label warnings even after container is emptied.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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