

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-221/2218-94-2.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

2218-94-2

**Code:**

M

**RTECS:**

**Code:**

X

**Name:**

1,4-DIPHENYL-3-(PHENYLAMINO)-1H-1,2,4-TRIAZOLIUM

**Other REC Limits:**

NONE RECOMMENDED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

NONE SHOULD BE NEEDED.

**Ventilation:**

3 GOOD GENERAL VENTILATION, TYPICALLY 10 AIR CHANGES PER HOUR, SHOULD BE USED. RATES SHOULD MATCH CONDITIONS.

**Protective Gloves:**

IMPERVIOUS

**Eye Protection:**

SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

**Other Protective Equipment:**

Equipment CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

**Work Hygienic Practices:**

WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

**Supplemental Safety and Health:**

REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. KEY1:N1.

## Health Hazards Data

**LD50/LC50 Mixture:**

ORAL LD50 (RAT): NOT GIVEN

**Route Of Entry Inds - Inhalation:**

NO

**Skin:**

YES

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

EXPECTED TO BE A LOW INHALATION HAZARD FOR RECOMMENDED HANDLING. EYE CONTACT MAY CAUSE IRRITATION. LOW SKIN CONTACT HAZARD FOR RECOMMENDED HANDLING. HARMFUL IF SWALLOWED. CAN CAUSE KIDNEY DAMAGE.

**Explanation Of Carcinogenicity:**

THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

**Signs And Symptoms Of Overexposure:**

EYE IRRITATION, KIDNEY DAMAGE.

**Medical Cond Aggravated By Exposure:**

2 NONE SPECIFIED BY MANUFACTURER.

**First Aid:**

INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: WASH OUT IMMEDIATELY WITH WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTION: INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL PHYSICIAN OR POISON CONTROL ASAP.

**Spill Release Procedures:**

FLUSH TO SEWER IF ALLOWABLE WITH LARGE AMOUNTS OF WATER. OTHERWISE, ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE TO REMOVE RESIDUAL CONTAMINATION.

**Neutralizing Agent:**

NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**

DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT TO NATIONAL, STATE OR LOCAL LAWS. MAY REQUIRE NEUTRALIZATION IF PH < 2.0 OR PH > 12.5. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

**Handling And Storage Precautions:**

USE WITH ADEQUATE VENTILATION. STORE AWAY FROM HEAT AND LIGHT. KEEP FROM CONTACT WITH OXIDIZING MATERIALS. KEEP CONTAINER TIGHTLY CLOSED.

**Other Precautions:**

THE ROUTINE USE OF A NONALKALINE (ACID) TYPE OF HAND CLEANER AND REGULAR CLEANING OF WORKING SURFACES WILL HELP MINIMIZE THE POSSIBILITY OF A SKIN REACTION.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

**Flash Point Text:**

>200F,>93C

**Autoignition Temp:**

**Autoignition Temp Text:**

N/K

**Lower Limits:**

NOT GIVEN

**Upper Limits:**

NOT GIVEN

**Extinguishing Media:**

WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

**Fire Fighting Procedures:**

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

**Unusual Fire/Explosion Hazard:**

MAY FORM PEROXIDES OF UNKNOWN STABILITY.

## Physical/Chemical Properties

**H2C:**

T6

**NRC/State Lic No:**

N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**

>212F,100C

**Melt/Freeze Pt:**

**M.P./F.P. Text:**

NOT GIVEN

**Decomp Temp:**

**Decomp Text:**

NOT GIVEN

**Vapor Pres:**

18

**Vapor Density:**

0.6

**Volatile Org Content %:**

**Spec Gravity:**

1.12

**VOC Pounds/Gallon:**

**PH:**

N/K

**VOC Grams/Liter:**

**Viscosity:**

N/K

**Evaporation Rate & Reference:**

NOT GIVEN

**Solubility in Water:**

COMPLETE

**Appearance and Odor:**

AMBER LIQUID, VINEGAR ODOR

AMBER LIQUID, VINEGAR ODOR

**Percent Volatiles by Volume:**

<5%

**Corrosion Rate:**

UNKNOWN

**Reactivity Data**

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

MINIMIZE EXPOSURE TO AIR. UPON PROLONGED STORAGE, MAY FORM PEROXIDES OF UNKNOWN STABILITY.

**Materials To Avoid:**

STRONG OXIDIZING AGENTS

**Hazardous Decomposition Products:**

CARBON DIOXIDE, CARBON MONOXIDE

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

NONE, WILL NOT OCCUR.

**Toxicological Information**

**Information:**

N/P

## MSDS Transport Information

**Information:**

N/P

**Regulatory Information**

**Sara Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

**Other Information:**

N/P