

MATERIAL SAFETY DATA SHEET



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| SECTION 1. ----- CHEMICAL IDENTIFICATION ----- |
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CATALOG#: IB70120
NAME: TEMED
CAS#: 110-18-9

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| SECTION 2. ----- HAZARDS IDENTIFICATION ----- |
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LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA)

CORROSIVE

CAUSES BURNS.

TOXIC

HARMFUL BY INHALATION AND IF SWALLOWED.

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

HMS: NFPA:

H: 3 H: 3

F: 3 F: 3

R: 1 R: 0

PE: I SH: N/A

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| SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS ----- |
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| CHEMICAL NAME: | CAS#: | RTECS #: | %: |
|----------------|----------|-----------|-------|
| TEMED | 110-18-9 | KV7175000 | >97.0 |

FOR MORE INFORMATION SEE COMPLETE RTECS ENTRY.

MF: C₆H₁₆N₂

EC NO: 203-744-6

SYNONYMS

1,2-BIS-(DIMETHYLAMINO)ETHANE * 1,2-DI-(DIMETHYLAMINO) ETHANE (DOT) *
1,2-ETHANEDIAMINE, N,N,N',N'-TETRAMETHYL- (9CI) * PROPAMINE D * TEMED
* TETRAWEEN * N,N,N',N'-TETRAMETHYL-1,2-DIAMINOETHANE * N,N,N',N'-
TETRAMETHYLETHANEDIAMINE * N,N,N',N'-TETRAMETHYL-1,2-ETHANEDIAMINE *
TETRAMETHYL ETHYLENE DIAMINE * N,N,N',N'-TETRAMETHYLETHYLENEDIAMINE *
TMEDA * UN2372 (DOT) *

SECTION 4. ----- FIRST-AID MEASURES-----

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

FLAMMABLE.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

FORMS EXPLOSIVE MIXTURES IN AIR.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

EVACUATE AREA.

SHUT OFF ALL SOURCES OF IGNITION.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

COVER WITH DRY-LIME, SAND, OR SODA ASH. PLACE IN COVERED CONTAINERS USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

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

DO NOT BREATHE VAPOR.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

KEEP TIGHTLY CLOSED.

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

HYGROSCOPIC

STORE IN A COOL DRY PLACE.

STORE AT ROOM TEMPERATURE.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

SAFETY SHOWER AND EYE BATH.

CHEMICAL FUME HOOD RECOMMENDED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR

LIQUID

PHYSICAL PROPERTIES

BOILING POINT: 120°C TO 122°C

MELTING POINT: -55°C

FLASHPOINT 20°C (68°F)

EXPLOSION LIMITS IN AIR:

UPPER 9.08%

LOWER 0.98%

SPECIFIC GRAVITY: 0.770

SECTION 10. STABILITY AND REACTIVITY

STABILITY

STABLE.

INCOMPATIBILITIES

MOISTUER

ACIDS

ACID CHLORIDES

ACID ANHYDRIDES

STRONG OXIDIZING AGENTS

CARBON DIOXIDE.

COPPER, COPPER ALLOYS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE,
AND NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

HARMFUL IF INHALED OR SWALLOWED.

MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE
LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.

PROLONGED CONTACT CAN CAUSE:

SEVERE IRRITATION OR BURNS.

EXPOSURE TO VAPOR, EVEN IN LOW CONCENTRATIONS, CAN CAUSE LACRIMATION,
CONJUNCTIVITIS AND CORNEAL EDEMA WHEN VAPOR IS ABSORBED INTO THE
TISSUE OF THE EYE. THE CORNEAL EDEMA MAY GIVE RISE TO A PERCEPTION
OF A "HALO", "BLUE HAZE" OR "FOG" AROUND LIGHTS. THIS EFFECT IS
USUALLY REVERSIBLE ALTHOUGH IT MAY LAST A COUPLE OF DAYS.

RTECS #: KV7175000

ETHYLENEDIAMINE, N,N,N',N'-TETRAMETHYL-

IRRITATION DATA

SKN-RBT 10 MG/24H OPEN

JIHTAB 30,63,1948

EYE-RBT 750 UG SEV

AJOPAA 29,1363,1946

TOXICITY DATA

ORL-RAT LD50:268 MG/KG

TOXID9 15,19,1995

IHL-RAT LC50:1318 PPM/4H

TOXID9 8,249,1988

ORL-MUS LD50:630 MG/KG

GTPZAB 28(6),55,1984

SKN-RBT LD50:5390 MG/KG

AIHAAP 30,470,1969

SCU-RBT LD50:1230 MG/KG
ORL-QAL LD50:>316 MG/KG

TOXID9 15,19,1995
EESADV 6,149,1982

TARGET ORGAN DATA

BRAIN AND COVERINGS (OTHER DEGENERATIVE CHANGES)

SPINAL CORD (OTHER DEGENERATIVE CHANGES)

SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS)

BEHAVIORAL (ATAXIA)

BEHAVIORAL (IRRITABILITY)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

COMPLETE INFORMATION.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER & SCRUBBER

BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

UN#: 2372

PROPER SHIPPING NAME: 1,2-DI-(DIMETHYLAMINO) ETHANE

PG: II

CLASS: 3

SECTION 15. ----- REGULATORY INFORMATION -----

EUROPEAN INFORMATION

EC INDEX NO: 612-103-00-3

HIGHLY FLAMMABLE

CORROSIVE

R: 10

FLAMMABLE



Highly flammable (F)

R: 34

CAUSES BURNS.



Corrosive (C)

R: 23/24/25

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.



Toxic (T)

S: 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

S: 15

KEEP AWAY FROM HEAT.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOHS 1974: HZD A1174; NIS 1; TNF 33; NOS 1; TNE 66

NOES 1983: HZD A1174; NIS 1; TNF 7; NOS 1; TNE 28

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1997

SECTION 16. ----- OTHER INFORMATION-----

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