

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: MALLINCKRODT, INC.
ADDRESS : P.O. BOX M, PARIS, KENTUCKY 40361
EMERGENCY PHONE NO : (606) 987-7000
CHEMICAL NAME/SYNONYMS: SODIUM AZIDE
CHEMICAL FAMILY : INORGANIC - POISON
FORMULA : NAN3

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS, ALLOYS AND METALLIC COATINGS:
NONE
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES
NONE

SECTION III - PHYSICAL DATA

BOILING POINT (DG.F): 300 C(DECOMPOSES)!SPECIFIC GRAVITY(H2O=1): 1.846
VAPOR PRESSURE(MMHG): !% VOLATILE BY VOL(%) :
VAPOR DENSITY(AIR=1): !EVAPORATION RATE(=1):
SOLUBILITY IN WATER : 40 % !DOT CLASSIFICATION : POISON B
APPEARANCE AND ODOR : COLORLESS, HEXAGONAL CRYSTALS

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT/METHOD USED: !FLAMMABLE LIMITS; LEL: UEL:
EXTINGUISHING MEDIA : WATER, FOAM OR DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS
UNUSUAL FIRE/EXPLOSION HAZARDS : SEE SECTIONS VI, VII AND IX

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NONE INDICATED. HIGHLY TOXIC VIA ORAL INHALATION
ROUTES. LIMIT EXPOSURE.
EFFECTS OF OVEREXPOSURE: CAUTION! MATERIAL IS EXTREMELY TOXIC.
AVOID INHALATION OF VAPORS AND/OR DUSTS. CAUSES FALL IN BLOOD PRESSURE,
CYANOSIS.
EMERGENCY AND FIRST AID PROCEDURES:
INHALATION - REMOVE FROM EXPOSURE. IF BREATHING HAS STOPPED, APPLY ARTIFICIAL
RESPIRATION. CALL PHYSICIAN IMMEDIATELY.
SKIN - WASH WELL WITH WATER FOLLOWED BY SOAP AND WATER.
INGESTION - EMPHASIS SHOULD BE PLACED ON TOXICITY OF THIS MATERIAL.
INDUCE VOMITING IMMEDIATELY, IF CONSCIOUS. STOMACH WASH
UNCONSCIOUS, GET MEDICAL HELP OR CALL PHYSICIAN.
EYES - WASH WITH PLENTY OF WATER. CONSULT A PHYSICIAN.

SECTION VI - REACTIVITY DATA

STABILITY; UNSTABLE! !STABLE! !; CONDITIONS TO AVOID: SHOCK AND HEAT
INCOMPATIBILITY/MATERIALS TO AVOID:
VIOLENT REACTION WITH BENZOYL CHLORIDE + KOH, BR2, CS2 + HNO3
HAZARDOUS DECOMPOSITION PRODUCTS :
ON HEATING, DECOMPOSES INTO SODIUM AND NITROGEN.
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
DISSOLVE SODIUM AZIDE IN LARGE VOLUME OF WATER. WASH INTO DRAIN WITH
LARGE VOLUME OF WATER.*
WASTE DISPOSAL METHOD:
SMALL AMOUNTS ONLY! SEE ABOVE PROCEDURE.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION/SPECIFY TYPE: DUST RESPIRATOR (NIOSH APPROVED)
VENTILATION; LOCAL EXHAUST: HOOD SYSTEM
PROTECTIVE GLOVES : RUBBER (LONG SLEEVES)
EYE PROTECTION : SAFETY GLASSES OR GOGGLES
OTHER PROTECTIVE EQUIPMENT: RUBBER APRON, LAB COAT OR COVERALLS

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
DANGEROUS! DO NOT STORE OR LOAD WITH ANY HIGH EXPLOSIVE. SODIUM AZIDE IS
NOT CONSIDERED EXPLOSIVE UNDER NORMAL LABORATORY CONDITIONS.
OTHER PRECAUTIONS:
KEEP STOCK OF ALL AZIDES VERY LOW. STAMP DATA AND RECEIPT ON ALL

CONTAINERS.

- * IT IS WELL ESTABLISHED THAT SODIUM AZIDE CAN REACT WITH BOTH COPPER AND LEAD TO PRODUCE EXPLOSIVE METAL AZIDES, AND IN THE PAST EIGHT YEARS THERE HAVE BEEN SEVEN REPORTS OF "EXPLOSIONS" IN LABORATORY PLUMBING SYSTEMS CONTAINING COPPER OR LEAD THAT HAD BEEN USED TO DISPOSE OF WASTES CONTAINING SODIUM AZIDE. REF. COLLEGE OF AM. PATHOLOGISTS, JULY 1980, PP. 337-339

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