

**MATERIAL SAFETY
DATA SHEET**

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SOLDERLENE®

THIS MSDS COMPLIES WITH 29 CFR 1900.1200

SECTION 1 - IDENTITY/EMERGENCY INFORMATION

PRODUCT NAME: SOLDERLENE® PRODUCT CODES: 30004
CHEMICAL NAME: MIXTURE 30016
CHEMICAL FORMULA: MIXTURE

IN CASE OF AN EMERGENCY CALL 1-800-255-3924

SECTION 2 - INGREDIENTS

COMPONENTS	CAS NO.	PEL/TLV - SOURCE
ZINC CHLORIDE	7646-85-7	1 mg/m ³ FOR FUMES (OSHA, ACGIH); 2 mg/m ³ STEL(OSHA,ACGIH)
AMMONIUM CHLORIDE	12125-02-9	10 mg/m ³ ,10mg/m ³ (OSHA,ACGIH) 20 mg/m ³ STEL (OSHA, ACGIH)

THIS PRODUCT CONTAINS ZINC CHLORIDE WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY.

SECTION 3 - PHYSICAL DATA

BOILING POINT: NO DATA AVAILABLE

MELTING POINT: 38 - 60 EC (100 - 140 EF)

VAPOR PRESSURE (mmHg): NO DATA AVAILABLE

VAPOR DENSITY (AIR > 1): NO DATA AVAILABLE

SPECIFIC GRAVITY (H₂O = 1): 0.815 - 0.880

SOLUBILITY IN WATER: INSOLUBLE

APPEARANCE AND ODOR: YELLOW. MILD PETROLEUM ODOR.

EVAPORATION RATE (n-Butyl Acetate = 1): NO DATA AVAILABLE

% VOLATILE (BY WT.): NEGLIGIBLE

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 199 EC (415 EF) ASTM D 92

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

EXPLOSIVE LIMITS: LOWER:NO DATA AVAILABLE UPPER:NO DATA AVAILABLE

EXTINGUISHING MEDIA: USE WATER FOG, FOAM, CO₂ OR DRY CHEMICAL EXTINGUISHING MEDIA.

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND TURN OUT GEAR. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO KEEP EXPOSED CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AVOID ALL SOURCES OF IGNITION - HEAT, SPARKS, OPEN FLAME.

HAZARD RATING: HEALTH - 2 FLAMMABILITY - 1 REACTIVITY - 0

SECTION 5 - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: UNDER FIRE CONDITIONS: AMMONIA,ZINC CHLORIDE FUMES,HYDROGEN CHLORIDE,CARBON DIOXIDE, CARBON MONOXIDE, SULFUR OXIDES, AND OTHER DECOMPOSITION PRODUCTS MAY FORM IN THE CASE OF INCOMPLETE COMBUSTION.

SECTION 6 - HEALTH HAZARD DATA

CARCINOGENICITY: NO CONSTITUENT OF THIS PRODUCT IS LISTED BY OSHA, NTP, OR IARC.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, INGESTION, EYE AND SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE:
THE CHRONIC EFFECTS OF OVEREXPOSURE TO ZINC CHLORIDE COULD RESULT IN PERMANENT DISABILITY.

FIRST AID PROCEDURES:

EYE CONTACT: IMMEDIATELY RINSE WITH RUNNING WATER FOR 15 MINUTES. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF IRRITATION DEVELOPS,GET MEDICAL ATTENTION.

INGESTION: IF INGESTED, DO NOT INDUCE VOMITING; CALL A PHYSICIAN IMMEDIATELY.

INHALATION: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR, IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

SECTION 7 - SPECIAL PROTECTION

RESPIRATORY PROTECTION: IF WORK PLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SECTION 2), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED. IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL, ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS NEOPRENE.

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED EXPOSURE OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING OR BOOTS.

SECTION 8 - ENVIRONMENTAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL AND LARGE SPILL: SPILL SHOULD BE CONTAINED AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL.

PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT SPILL HAS OCCURRED.

WASTE DISPOSAL METHOD:

SMALL AND LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

EPA REGULATION 302 (CERCLA SECTION 102):

NO REPORTABLE QUANTITY (RQ) FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

EPA REGULATION CFR 355 (SARA SECTION 301-302)

NO THRESHOLD PLANNING QUANTITY FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

EPA REGULATION 40 CFR 372 (SARA SECTION 313):

CONTAINS A REPORTABLE CHEMICAL, ZINC CHLORIDE.

EPA REGULATION 40 CFR 370 (SARA SECTIONS 311-312):

NOT APPLICABLE FOR PRODUCT.

SECTION 9 - SHIPPING INFORMATION

D.O.T.(49 CFR 172): NOT REGULATED

POISON CONSTITUENT: NONE

BILL OF LADING:

FLUX, SOLDERING, NOI IT 71695

INTERNATIONAL (UN/NA CODE): NONE

DATE PREPARED: 10/6/91

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