

**MATERIAL SAFETY
DATA SHEET**

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THAWZONE®

THIS MSDS COMPLIES WITH 29 CFR 1900.1200

SECTION 1 - IDENTITY/EMERGENCY INFORMATION

PRODUCT NAME:	THAWZONE®	PRODUCT CODES:	17001
CHEMICAL NAME:	ALCOHOL MIXTURE		17004
CHEMICAL FORMULA:	MIXTURE		17016

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

SECTION 2 - INGREDIENTS

COMPONENTS	CAS NO.	PEL/TLV - SOURCE
ETHANOL	64-17-5	1000 ppm, 1000 ppm,(OSHA, ACCIH)
ISOPROPANOL	67-63-0	400 ppm, 400 ppm (OSHA,ACGIH)

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

SECTION 3 - PHYSICAL DATA

BOILING POINT: 78 - 80 °C (173 - 176 °F)

VAPOR PRESSURE (mmHg): 44.20 mmHg @ 20°C

VAPOR DENSITY (AIR = 1): 1.6

SPECIFIC GRAVITY (H₂O = 1): 0.789 - 0.791 @ 20 C

SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR: CLEAR LIQUID. ALCOHOL ODOR.

EVAPORATION RATE (N-BUTYL ACETATE = 1): 3.30

% VOLATILE (BY WEIGHT): 98

VOLATILE ORGANIC COMPOUNDS: 98

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 15.5 °C (60 °F) PMCC

EXPLOSIVE LIMIT: LOWER: 3.3% UPPER: 19.0%

EXTINGUISHING MEDIA: USE ALCOHOL FOAM, CARBON DIOXIDE, OR DRY CHEMICAL

EXTINGUISHING MEDIA.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: AVOID ALL SOURCES OF IGNITION - HEAT, SPARKS, OPEN FLAME. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO IGNITION SOURCES AT LOCATIONS AWAY FROM MATERIAL HANDLING POINT.

HAZARD RATING: HEALTH 1 FLAMMABILITY 3 REACTIVITY 0

SECTION 5 - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: UNDER FIRE CONDITIONS; FUMES, CARBON DIOXIDE, CARBON MONOXIDE, AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION.

SECTION 6 - HEALTH HAZARD DATA

CARCINOGENICITY: IARC HAS DETERMINED THAT EXPOSURE TO ETHANOL THROUGH CHRONIC HUMAN CONSUMPTION OF ALCOHOLIC BEVERAGES CAN CAUSE CANCER.

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

EFFECTS OF CHRONIC OVEREXPOSURE: OVEREXPOSURE TO ETHANOL HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: LIVER ABNORMALITIES, KIDNEY DAMAGE.

OVEREXPOSURE TO ETHANOL HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: LIVER ABNORMALITIES, EYE DAMAGE.

FIRST AID PROCEDURES:

SKIN CONTACT: THOROUGHLY WASH THE EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE. IF SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

EYE CONTACT: FLUSH GENTLY WITH LARGE AMOUNTS OF WATER, FOR AT LEAST 15 WHILE HOLDING EYELIDS APART. GET MEDICAL ATTENTION.

INGESTION: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS CONSCIOUS AND ALERT IMMEDIATELY GIVE TWO GLASSES OF WATER AND INDUCE VOMITING EITHER BY GIVING IPECAC SYRUP OR BY PLACING FINGER AT BACK OF THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

SECTION 7 - SPECIAL PRECAUTIONS

RESPIRATORY PROTECTION: IF WORK PLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE 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).

SKIN PROTECTION: WEAR RESISTANT GLOVES SUCH AS NEOPRENE

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED 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 SPILL: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM THE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK, REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

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

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 CFR 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)

NO TOXIC CHEMICAL IS PRESENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

EPA REGULATION 40 CFR 370 (SARA SECTIONS 311-312)
IMMEDIATE (X) DELAYED (X) FIRE (X) REACTIVITY () SUDDEN RELEASE OF PRESSURE ()
SECTION 9 - SHIPPING DATA

D.O.T PROPER SHIPPING NAME (49 CFR 172):
ONE LITER AND SMALLER CONTAINER: CONSUMER COMMODITY, ORM-D
OVER ONE LITER CONTAINER: ETHANOL SOLUTION, 3, UN 1170, II

BILL OF LADING DESCRIPTION:
SOLVENT IT 42690 S-2

POISON CONSTITUENT: NONE

MARINE POLLUTANT: NONE

INTERNATIONAL(UN/NA CODE):
ONE LITRE OR LESS CONTAINER: ETHANOL SOLUTION, 3, UN 1170, II, LTD. QTY
OVER ONE LITRE CONTAINER: ETHANOL SOLUTION, 3, UN1170, II

IMCO: EmS No. 3-06 CLASS 3

DATE PREPARED: 10/16/91

DATE UPDATE: **04/03/03**

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