

**MATERIAL SAFETY
DATA SHEET**

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TRACE ®

THIS MSDS COMPLIES WITH 29 CFR 1900.1200

SECTION 1 - IDENTITY/EMERGENCY INFORMATION

PRODUCT NAME:	TRACE ®	PRODUCT CODES:	20004
CHEMICAL NAME:	MIXTURE		20016
CHEMICAL FORMULA:	MIXTURE		20128

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

SECTION 2 - INGREDIENTS

COMPONENTS	CAS NO.	PEL/TLV - SOURCE
AZO DYE	85-83-6	NOT ESTABLISHED

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

SECTION 3 - PHYSICAL DATA

BOILING POINT: > 260°C
VAPOR PRESSURE: LESS THAN 0.1 mmHg @ 20°C
VAPOR DENSITY (AIR = 1): GREATER THAN 10
SPECIFIC GRAVITY (H₂O = 1): 0.88
SOLUBILITY IN WATER: < 0.1%
APPEARANCE AND ODOR: DARK RED OILY LIQUID. MILD PETROLEUM ODOR.
EVAPORATION RATE (n-Butyl Acetate = 1): LESS THAN 0.01
% VOLATILE (BY WT.): NEGLIGIBLE; LESS THAN 0.7%

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 370 °F ASTM D 92 (COC)

AUTOIGNITION TEMPERATURE: GREATER THAN 260 °C (500 °F)

EXPLOSIVE LIMITS: LOWER: 0.9% UPPER: 7%

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

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 - 1 FLAMMABILITY - 1 REACTIVITY - 0

SECTION 5 - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

STABILITY: STABLE

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: UNDER FIRE CONDITIONS: FUMES, SMOKE, CARBON MONOXIDE, SULFUR OXIDES, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION.

MATERIALS TO AVOID: STRONG OXIDIZERS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE, CALCIUM HYPOCHLORITE, ETC.

SECTION 6 - HEALTH HAZARD DATA

CARCINOGENICITY: NO CONSTITUENT OF 0.1% OR GREATER IN THIS PRODUCT IS LISTED BY OSHA, NTP, OR IARC.

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

POTENTIAL EFFECTS OF OVEREXPOSURE:

EYE: MAY CAUSE EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION, DERMATITIS.

INGESTION: DO NOT TAKE INTERNALLY. MAY CAUSE NAUSEA AND DIARRHEA.

INHALATION: MAY CAUSE RESPIRATORY IRRITATION IF EXPOSED TO MIST.

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 LAUNDRER 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 (ANSI Z87.1 OR EQUIVALENT).

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):

QUANTITY PRESENT IS NOT REPORTABLE.

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 DESCRIPTION:

REFRIGERATION OIL IT 145000 S-2

INTERNATIONAL (UN/NA CODE): NONE

DATE PREPARED: 06/06/96

DATE UPDATED: **04/03/03**

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