

MATERIAL SAFETY DATA SHEET

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FORMULA: 4892 DATE: 10/22/85  
 MSDS EFFECTIVE: 03/30/90 BY: MARK S.  
 SUPERSEDES MSDS OF: 07/21/88  
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 COF: 667248  
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 SDS KEY: 0072105  
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DEAR CUSTOMER:

IN COMPLIANCE WITH THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA TITLE III, SECTION 313), FEDERAL HAZARD COMMUNICATIONS REGULATIONS (WHMIS AND OSHA 29 CFR 1910.1200) AND IN THE INTEREST OF INFORMED USE OF OUR PRODUCT, WE ARE PROVIDING YOU WITH THIS MATERIAL SAFETY DATA SHEET (MSDS).

THIS MSDS WILL BE UPDATED REGULARLY TO REFLECT THE MOST RECENT INFORMATION IN OUR POSSESSION. PLEASE ENSURE THAT OBSOLETE MSDS SHEETS IN YOUR FILES FOR THIS PART NUMBER ARE DISCARDED.

WE THANK YOU FOR YOUR CONTINUED PATRONAGE AND LOOK FORWARD TO PROVIDING YOU WITH ADDITIONAL QUALITY PRODUCTS AND SERVICES.

\*\*\*\*\* SECTION I - PRODUCT IDENTIFICATION \*\*\*\*\*

PART NUMBER: 20065  
 PRODUCT NAME: ST P LEAK TRACE PWDR E Z SP  
 TRADE NAME/SYNONYMS: ST-P SPRAY TRACING POWDER  
 CHEMICAL FAMILY: PRESSURIZED PRODUCT

\*\*\*\*\* SECTION II - HAZARDOUS INGREDIENTS \*\*\*\*\*

INGREDIENT	CAS NO.	WT %	PEL	TLV	STEL	UNITS	LC50,PPM	LD50, MG/KG
111-TRICHLOROETHANE	#00071-55-6	20	350	350	450	PPM	MIC	3911RAB I 5660 RAB A>1000
CALCIUM CARBONATE	00471-34-1	>3	5*	10*	N/A	MG/M3	N/A	RAT I 6450
ISOBUTANE	00075-28-5	70	N/A	N/A	N/A	N/A	N/A	N/A

INGREDIENTS TOTAL WT % ARE BELOW 100% ONLY IF ALL OTHERS UNLISTED ARE NOT CONSIDERED HAZARDOUS BY ANY FEDERAL (OSHA, WHMIS, SARA), ANY STATE OR PROVINCE, OR LOCAL RIGHT-TO-KNOW REGULATIONS

SYMBOLS, ABBREVIATIONS AND NOTATIONS:  
 N/A=NOT AVAILABLE OR APPLICABLE, C=CEILING LIMIT, S=SKIN DESIGNATION  
 #=LISTED IN SARA TITLE III SECTION 313,\*=IF FOUND AS DUST, MIST OR FUME  
 M=HUMAN, RAB=RABBITS, GPG=GUINEA PIGS, MIC=MICE  
 I=INGESTION, A=SKIN ABSORPTION, LO=LITTLE OBSERVABLE EFFECT, NO=NO EFFECT  
 PEL=OSHA PERMISSIBLE EXPOSURE LIMIT, TLV=ACGIH THRESHOLD LIMIT VALUE  
 STEL=SHORT TERM EXPOSURE LIMIT, @=AMONG 5 MOST PREDOMINANT SUBSTANCES

\*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

BOILING PT DEG F/C: 165 F/74 C SPECIFIC GRAVITY:1.35  
FOR PRESSURE (MM HG):PROPELLANT 4.7 ATM %VOLATILE VOLUME:73.3  
VAPOR DENSITY(AIR=1):4.6 EVAPORATION RATE:(BUT ACE=1) 6.0  
SOLUBILITY IN WATER: NIL WATER/OIL DIST COEFF:0  
APPEARANCE AND ODOR: OFF WHITE TURBID SOLUTION WITH CHLORINATED SOLVENT ODOR  
PHYSICAL STATE: AEROSOL  
FREEZE PT DEG F/C: -76 F/-60 C THRESHOLD ODOR,PPM: 12  
OTHER:VOC(LBS./GAL.)=7.88 PH:N/A

\*\*\*\*\* SECTION IV - FIRE AND EXPLOSION HAZARD DATA \*\*\*\*\*

CLASSIFICATION: FLAMMABLE AEROSOL NFPA RATING: 3,4,1  
COMBUSTION PRODUCTS: CO2,CO,HYDROCHLORIC ACID,PHOSGENE  
FLASH POINT DEG F/C: -40 F/ -40 C PROPELLANT LEL%:1.9 UEL%:8.5  
EXTINGUISHING MEDIA: FOAM, CO2  
UN/NA/PIN#: 1954 SPECIAL FIRE FIGHTING PROCEDURES:  
FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING EQUIPMENT.  
AUTO IGN. TEMP DEG F/C: 860 F/ 460 C UNUSUAL FIRE AND EXPLOSION HAZARDS:  
EXPOSURE TO FIRE, HEAT OR PROLONGED SUNLIGHT MAY CAUSE BURSTING.  
IF USED IN CONFINED SPACES, HAZARDOUS VAPORS MAY SPREAD,  
BURN OR BUILD UP IN LOW AREAS.  
CONTACT WITH FLAME OR HOT SURFACES MAY PRODUCE TOXIC GASES.  
EXPLOSIVE POWER: HIGH IMPACT SENSITIVE: NO  
BURNING RATE: HIGH STATIC SENSITIVE: YES FLAMMABLE

\*\*\*\*\* SECTION V - HEALTH HAZARD DATA \*\*\*\*\*

PRODUCT GUIDE:TLV (SEE SECTION II) STEL: (SEE SECTION II)  
ROUTES OF ENTRY: EYE,INHALATION  
EFFECTS OF OVEREXPOSURE: ACUTE: YES EYE IRRITATION CHRONIC: YES CNS,DIZZY  
CAUSES EYE IRRITATION. VAPORS IN HIGH CONCENTRATION ARE ANESTHETIC AND  
IRRITATE UPPER RESPIRATORY SYSTEM. EXCESS INHALATION MAY CAUSE DIZZINESS,  
GIDDINESS, AND NAUSEA. PROLONGED AND REPEATED INHALATION MAY BE HARMFUL  
TO RESPIRATORY SYSTEM, CNS, LIVER, AND KIDNEYS. MISUSE OR DELIBERATE  
INHALATION MAY BE HARMFUL OR FATAL. HARMFUL IF SWALLOWED.  
LISTED AS A SUSPECTED CARCINOGEN: NO  
EMERGENCY AND FIRST AID PROCEDURES:  
EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MIN. & CALL PHYSICIAN.  
SKIN: WASH THOROUGHLY WITH PLENTY OF SOAP AND WATER. INHALATION: IF  
AFFECTED, REMOVE TO FRESH AIR. INGESTION: SEEK PHYSICIAN IMMEDIATLY, SHOW  
MSDS OR LABEL, INDUCE VOMITING.

\*\*\*\*\* SECTION VI - REACTIVITY DATA \*\*\*\*\*

STABLE; YES CONDITIONS TO AVOID:  
KEEP AWAY FROM HEAT, SPARKS, FLAMES, OR SOURCES OF IGNITION.  
INCOMPATIBILITY(MATERIALS TO AVOID): NO  
HAZARDOUS DECOMPOSITION PRODUCTS: YES CARBON MONOXIDE,HCL,PHOSGENE  
HAZARDOUS POLYMERIZATION: NO CONDITIONS TO AVOID:  
N/A

\*\*\*\*\* SECTION VII - SPILL OR LEAK PROCEDURES \*\*\*\*\*

LISTED IN: SARA TITLE III, #302: NO #304,CERCLA: YES #313: YES  
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
IN CASE OF SPILL: REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA. WEAR  
APPROVED RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, GLOVES, AND EYE/FACE,  
PROTECTION. CLEAN UP WITH ABSORBENT MATERIAL. CONTAIN AND PICK UP WASTE  
MATERIALS. PUT IN A SEALED APPROVED CONTAINER.  
REPORT QUANTITY, LB: 5000 KG: 2272 TPO, LB: N/A  
REGULATIONS: SARA,CERCLA,RCRA,PROV/STATE,WHMIS OTHER: N/A  
HAZARD WASTE: FLAMMABLE, TOXIC, AEROSOL, HALOGENATED SOLVENT  
NO.: D001, U226 DISPOSAL METHOD:  
DISPOSE OF WASTES IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.  
DO NOT PUNCTURE, INCINERATE (OR BURN) CONTAINERS.

\*\*\*\*\* SECTION VIII - SAFE HANDLING AND PROTECTION INFORMATION \*\*\*\*\*

RESPIRATORY PROTECTION: USE ONLY IN WELL VENTILATED AREAS

VENTILATION-LOCAL: REQUIRED SPECIAL:KEEP AWAY FROM HEAT/FLAME  
MECHANICAL: REQUIRED OTHER: N/A

PROTECTIVE GLOVES: SOLVENT RESISTANT EYE PROTECTION:SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT:

IF VENTILATION IS INADEQUATE, WEAR APPROVED RESPIRATORY EQUIPMENT.

ESTIMATED LD50, MG/KG: YES ORAL RABBIT 5660; DERMAL RABBIT >1000

ESTIMATED LC50, PPM: YES INHALATION MICE 3911

SENSITIZATION: NO

IRRITANT: YES EYES SYNERGISTIC AGENTS: NO

\*\*\*\*\* SECTION IX - SPECIAL PRECAUTIONS \*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP AWAY FROM HEAT, SPARKS, FLAMES, OR SOURCES OF IGNITION. USE ONLY IN WELL VENTILATED AREAS. AVOID PROLONGED OR REPEATED BREATHING OF GAS, FUMES, VAPOR OR SPRAY MIST. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH THOROUGHLY AFTER USING. DO NOT TAKE INTERNALLY. IN CASE OF ACCIDENT OR ILLNESS, SEEK A PHYSICIAN IMMEDIATELY AND SHOW THE LABEL OR MSDS.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

ALWAYS READ AND FOLLOW DIRECTIONS ON PRODUCT LABEL.

ADDITIONAL TECHNICAL DATA SHEETS AND/OR MATERIAL SAFETY DATA SHEETS (MSDS) ARE AVAILABLE UPON REQUEST. FOR PROFESSIONAL AND INDUSTRIAL USE ONLY.

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