

Product Description:  
U.S. MILITARY  
FED-STD-595B  
#37030 (P) BLACK  
TOUCH-UP PEN

MATERIAL SAFETY DATA SHEET  
( - AEROSOL PRODUCT)

SECTION 1: MANUFACTURER IDENTIFICATION

24 Hour Emergency: 800-424-9300

DATE PRINTED: 07/20/05  
LAST REVISION: 05/05/05

MANUFACTURED by: (C2509)  
MILSPRAY  
LAKEWOOD, NJ 08701  
732-886-2223  
www.milspray.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CARCINOGEN BY:				SARA 313	LISTED		
#	COMPONENT	CAS#	% by WT.	LISTED	NTP	IARC	OSHA
1	XYLENE	1330-20-7	30-36	Y	N	N	
2	AROMATIC-100	64742-95-6	10-16	N	N	N	
3	TALC	14807-96-6	8-10	N	N	N	
4	1,2,4-TRIMETHYLBENZENE	95-63-6	5-8	N	N	N	
5	*ETHYLBENZENE	100-41-4	5-8	Y	N	Y	
6	*CARBON BLACK	1333-86-4	1-3	N	N	Y	
7	MINERAL SPIRITS 66	8052-41-3	1-3	N	N	N	
8	1,3,5-TRIMETHYLBENZENE	108-67-8	1-3	N	N	N	
9	N-BUTYL ACETATE	123-86-4	1-3	N	N	N	

\*See Section 15 and Section 11

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Extremely Flammable. Contents Under Pressure.

APPEARANCE/ODOR: Liquid Spray Mist / Solvent Odor

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

LIKELY ROUTES OF EXPOSURE: Eye contact, skin contact, ingestion, and inhalation

EYE: Contact may cause redness, irritation, tearing, and blurred vision  
SKIN: Contact may dry skin causing cracks and irritation  
INGESTION: May be harmful if swallowed  
INHALATION: Exposure to high concentrations of vapors may cause drowsiness, breathing difficulty, respiratory irritation, or headaches. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:  
Asthma and other respiratory ailments.  
TARGET ORGANS: Kidney Liver Lung Brain

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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SECTION 4: FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. If irritation develops get medical attention.  
SKIN CONTACT: Remove contaminated clothing and wash before reuse. Wash skin with soap and water. Get medical attention if irritation develops.  
INHALATION: Move to fresh air. Contact emergency medical support if breathing stops or is irregular.  
INGESTION: Do NOT induce vomiting. Get medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: CO<sub>2</sub> (Carbon Dioxide), dry chemical, or water fog.  
UNSUITABLE EXTINGUISHING MEDIA: Water spray may be unsuitable. However, if water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible explosion when exposed to extreme heat.  
PRODUCTS OF COMBUSTION: These products are carbon oxides (CO,CO<sub>2</sub>).  
PROTECTION OF FIREFIGHTERS: Full protective equipment including self-contained breathing apparatus should be used.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protection recommended in Section 8.  
ENVIRONMENTAL PRECAUTIONS: None known.  
METHODS OF CONTAINMENT: Absorb spilled liquid in suitable material.  
METHODS OF CLEAN-UP: Use spark-proof tools to sweep or scrape up and containerize.  
OTHER INFORMATION: Ventilate the area.

SECTION 7: HANDLING AND STORAGE

HANDLING:  
Vapors may ignite explosively. Prevent buildup of vapors; use with adequate ventilation. Keep from sparks, heat, flame or other heat sources. Do not smoke. Turn off pilot lights, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Do not puncture or incinerate (burn) container.

STORAGE:

Store in dry well ventilated areas. Do not expose to heat or store at temperatures above 48 degrees C (120 degrees F).

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

#	COMPONENT	ACGIH TLV-STEL	ACGIH TLV-TWA	OSHA PEL-TWA
1	XYLENE	150 ppm	100 ppm	100 ppm
2	AROMATIC-100	N/E	100 ppm	100 ppm
3	TALC	N/E	2 mg/m3	2 mg/m3
4	1,2,4-TRIMETHYLBENZENE	N/E	N/E	N/E
5	*ETHYLBENZENE	125 ppm	100 ppm	100 ppm
6	*CARBON BLACK	N/E	3.5 mg/m3	3.5mg/m3
7	MINERAL SPIRITS 66	N/E	100 ppm	500 ppm
8	1,3,5-TRIMETHYLBENZENE	N/E	25.0 ppm	25.0ppm
9	N-BUTYL ACETATE	N/E	150 ppm	150 ppm

\*See Section 15 and Section 11

ENGINEERING CONTROLS: Not generally required if product is applied in small quantities. If product is applied in larger quantities, provide ventilation to keep air contamination below OSHA permissible exposure limits and ACGIH TLV exposure levels.

EYE/FACE PROTECTION: Wear safety glasses with side shields. Have eye wash facilities immediately available.

SKIN PROTECTION: Chemical resistant gloves if contact is likely.

RESPIRATORY PROTECTION: Use NIOSH-approved air-purifying respirator with organic cartridge or canister if exposure cannot be controlled within applicable limits with ventilation.

GENERAL HYGIENE CONSIDERATIONS: Wash thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: see product description  
Odor: Solvent Odor  
Physical State: Aerosol - Pressurized Liquid  
Freezing Point: Not Established (mixture)  
Boiling Range: <-18 C to 177 C (<0 F to 350 F)  
Flash Point: <-18 C (<0 F)  
Evaporation Rate: Faster than ether  
Upper Flammability Limit: Not Established (mixture)  
Lower Flammability Limit: Not Established (mixture)  
Vapor Pressure: Approximately 50 psig @ 10 C (70 F)  
Specific Gravity: 0.995 @15 C (60 F)  
Solubility (water): Negligible  
Coating Category (CA): NOT APPLICABLE

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Keep away from heat, sparks, and flames.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: by fire - Carbon Dioxide and Carbon Monoxide

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

#	COMPONENT	LD50 Oral	LD50 Dermal
1	XYLENE	4300 mg/kg	1700 mg/kg
2	AROMATIC-100	N/E	N/E
3	TALC	N/E	N/E
4	1,2,4-TRIMETHYLBENZENE	N/E	N/E
5	*ETHYLBENZENE	3500 mg/kg	15400 mg/kg
6	*CARBON BLACK	8000 mg/kg	8000 mg/kg
7	MINERAL SPIRITS 66	N/E	N/E
8	1,3,5-TRIMETHYLBENZENE	N/E	N/E
9	N-BUTYL ACETATE	N/E	N/E

\*See Section 15

See section 3 for other acute effect information.

CHRONIC EFFECTS: Prolonged over-exposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems. Reports have associated the repeated and prolonged occupational OVER-EXPOSURE to solvents with brain and nervous system damage. The deliberate misuse by concentrating and inhaling the vapors may be harmful or fatal. CARCINOGENICITY: See Section 2 for additional information.

\* Ethylbenzene and Carbon Black have been classified as a (Group 2B) possible human carcinogen based on tests on laboratory animals by (IARC) The International Agency for Research on Cancer. There is inadequate evidence for cancer in exposed humans.

SECTION 12: ECOLOGICAL INFORMATION

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not puncture, incinerate or place container in trash compactor. Dispose of product in accordance with Federal, State, and Local regulations. Empty containers are 95% steel; recycle where allowed.

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SECTION 14: TRANSPORTATION INFORMATION  
US DOT (Ground)  
Proper Shipping Name: CONSUMER COMMODITY  
Hazard Class: ORM-D

US DOT (Air)  
Proper Shipping Name: CONSUMER COMMODITY  
Hazard Class: ORM-D-AIR

IATA (Domestic Air)  
CONSUMER COMMODITY, ID 8000, CLASS 9, MISCELLANEOUS LABEL, Packing Instruction:  
910.

IATA (International Air)  
Proper Shipping Name: AEROSOLS, FLAMMABLE, N.O.S.; Class: 2.1; UN1950; Packing  
Instruction: Y203; Authorization: LTD. QTY.; FLAMMABLE GAS label required on  
box.

IMDG (Water)  
Proper Shipping Name: AEROSOL PRODUCT, LTD QTY, IMDG Class 2, Page 2102,  
UN1950,  
Packing Group II, Marine Pollutant: Yes.

SECTION 15: REGULATORY INFORMATION  
International Chemical Inventory  
TSCA: United States The components of this product are listed on the TSCA  
inventory.  
DSL/NDSL: Canada The components of this product are listed on the DSL  
inventory.  
AICS: Australia The components of this product are listed on the AICS  
inventory.

Section 313 Toxic Chemicals

See section 2. Chemicals marked with a "Y" are subject to the  
SARA reporting requirements under 40 cfr 372.45(c)(5).

\*California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition  
65) This product contains chemicals known to the state of California to cause  
cancer and birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION  
HMIS: Hazardous Material Identification System

Health - 2 Fire - 3 Reactivity - 1 0 = minimal hazard, 1 = slight  
hazard, 2 = moderate hazard, 3 = severe hazard,  
4 = extreme hazard

This MSDS is based on information believed to be reliable and accurate.  
Because of changing reporting requirements and other variables it is impossible  
to guarantee the accuracy of the information contained in this document. It is  
the responsibility of the user to determine proper personal protection based on  
the actual condition of use and to comply with all Federal, State and Local  
laws and regulations.