

# ATTACK

**Material Safety Data Sheet**  
 May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072



IDENTITY (As Used on Label and List)

**ATTACK™**

Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Supplier Information:  
 Santa Fe Jewellery Supply  
 1513 Fifth Street Santa Fe, NM 87505

Emergency Telephone Number  
 (316) 524-5751 (VULCAN CHEMICALS)  
 Telephone Number for Information  
 (612) 443-2626  
 Date Prepared  
 JUNE 1993  
 Signature of Preparer (optional)

**Section II — Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
METHYLENE CHLORIDE-DICHLOROMETHANE	75-09-02	500ppm TWA	100ppm TWA	> 90%
DIMETHYLFORMAMIDE	68-12-2	10ppm, 30mg/m <sup>3</sup>		< 10%
FORMULA - PROPRIETARY				
CAS REGISTRY NO. 75-09-2				
DOT ID NUMBER - UN-1593				

**Section III — Physical/Chemical Characteristics**

Boiling Point	104° F	Specific Gravity (H <sub>2</sub> O = 1)	@25/25° C	1.32
Vapor Pressure (mm Hg)	@20° C	350mmHg	Melting Point	N/A
Vapor Density (AIR = 1)	2.9	Evaporation Rate (Butyl Acetate = 1)		< 1

Solubility in Water  
 1.32 gm/100 gm @25° C

Appearance and Odor  
 BLUE CLEAR LIQUID - MILDLY SWEET.

**Section IV — Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NONE (TAG CLOSED CUP)	12/19% (VOL) @100° C	2.2	15.2

Extinguishing Media  
 WATER, FOG, DRY CHEMICAL, FOAM, CARBON DIOXIDE

Special Fire Fighting Procedures  
 FIREFIGHTER SHOULD WEAR PROTECTIVE EQUIPMENT & SELF-CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL

CONTAINER, FOR FLUSHING SPILLS FROM SOURCE OF IGNITION TO DISPENSE VAPORS.

Unusual Fire and Explosion Hazards

CONCENTRATED VAPORS CAN BE IGNITED BY HIGH INTENSITY IGNITION SOURCE. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL TO SOURCE OF IGNITION. THERMAL DECOMPOSITION PRODUCES HAZARDOUS PRODUCTS. SEE SECTION #5.

(Reproduce locally)

OSHA 174, Sept. 1985

**SECTION V - REACTIVITY DATA**

Stability	Unstable		Conditions to Avoid AVOID CONTACT WITH OPEN FLAME, HOT SURFACES OR EMISSIONS FROM WELDS
	Stable	X	

**Incompatibility (Materials to Avoid)**  
STRONG ALKALIES, OXYGEN, NITROGEN PEROXIDE, SODIUM, POTASSIUM, POLYHALOGENATED COMPOUND & OTHER OXIDIZERS.

**Hazardous Decomposition or Byproducts**  
HYDROGEN CHLORIDE, PHOSGENE, CHLORINE, DIMETHYLAMINE & CARBON MONOXIDE.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation? PRIMARY	Skin? PRIMARY	Ingestion? LOW TO MODERATE
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**Health Hazards (Acute and Chronic)**  
INHALATION MAJOR ROUTE OF EXPOSURE. DEPRESSES THE CENTRAL NERVOUS SYSTEM. CONCENTRATION OF 900 TO 1000ppm MAY CAUSE DIZZINESS. ABOVE 2000ppm NAUSEA, HEADACHES & VOMITING CAN OCCUR. AT 7000ppm NUMBNESS & TINGLING IN ARMS & LEGS ABOVE 9000ppm LOSS OF CONSCIOUSNESS & DEATH HAVE OCCURED IF EXPOSURE IS PROLONGED.

**Carcinogenicity:** NTP? IARC Monographs? OSHA Regulated?  
METHYLENE CHLORIDE HAS BEEN IDENTIFIED AS ANIMAL CARCINOGEN BY NTP, IS NOT ON THE IARC OR NTP LIST AS OF 10/31/87  
DIMETHYL FORMAMIDE IS NOT LISTED AS A CARCINOGEN BY NTP, IARC, OSHA OR ACGIH.

**Signs and Symptoms of Exposure**  
DIZZINESS FROM INHALATION, SKIN IRRITATION. DEPARTING OF SKIN & DERMATITIS. VAPORS MAY IRRITATE EYES, LIQUID MAY CAUSE IRRITATION & TEMPORARY CORNEAL INJURY. INGESTION, SINGLE DOSE TOXICITY LOW TO MODERATE.

**Medical Conditions**  
Generally Aggravated by Exposure ALCOHOLISM, ACUTE CHRONIC LIVER & KIDNEY DISEASE, CHRONIC LUNG DISEASE, ANEMIA, CORONARY DISEASE OR RHYTHM DISORDERS OF THE HEART.

**Emergency and First Aid Procedures**  
MOVE TO FRESH AIR, REMOVE CONTAMINATED CLOTHING. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. EYE CONTACT: FLUSH EYES IMMEDIATELY WITH WATER FOR AT LEAST 15 MIN. INGESTION: DO NOT INDUCE VOMITING, CALL A PHYSICIAN

**Section VII - Precautions for Safe Handling and Use**

**Steps to Be Taken in Case Material is Released or Spilled**  
EVACUATE AREA, VENTILATE & AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR PROTECTIVE GEAR) WITH ABSORBENT MATERIAL & PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND & SURFACE WATERS DO NOT FLUSH TO SEWER. IF SPILL OCCURS INDOORS, TURN OFF AIR CONDITIONING & HEATING SYSTEMS.

**Waste Disposal Method**  
RECOVERED LIQUIDS MAY BE SENT TO LICENSED RECLAIMER. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE & LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURE.

**Precautions to Be Taken in Handling and Storing**  
STORE SEALED CONTAINERS IN COOL, DRY, WELL-VENTILATED AREA OUT OF SUNLIGHT. PREVENT WATER OR MOIST AIR FROM ENTERING CONTAINERS. DO NOT CUT OR WELD ON EMPTY OR FULL DRUMS. KEEP CONTAINERS AWAY FROM HEAT, SPARKS OR FLAME.

**Other Precautions**  
NO SMOKING IN PRESENCE OF VAPORS. DO NOT REUSE DRUM WITHOUT RECONDITIONING IN ACCORDANCE WITH FEDERAL, STATE & LOCAL LAWS. DO NOT REMOVE OR DEFACE LABEL. VAPORS ARE HEAVIER THAN AIR & WILL COLLECT IN LOW AREA.

**Section VIII - Control Measures**

**Respiratory Protection (Specify Type)**  
IF VAPORS CONCENTRATION EXCEEDS 100ppm, USE A NIOSH APPROVED FULL FACE RESPIRATOR WITH ORGANIC VAPOR CANISTER.

Ventilation	Local Exhaust SUFFICIENT TO MAINTAIN LEVELS BELOW 100ppm(TWA)	Special DO NOT USE IN CLOSED OR CONFINED SPACE.
	Mechanical (General)	Other OPEN DOORS AND WINDOWS

Protective Gloves BUTYL, NEOPRENE, VITON & P.V.C. COATED GLOVES	Eye Protection CHEMICAL SAFETY GOGGLES OR FULL FACE SHIELD
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Other Protective Clothing or Equipment  
BUTYL APRON

**Work/Hygienic Practices**  
AVOID CONTACT WITH SKIN, AVOID BREATHING VAPORS. DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING

DRINKING OR USING THE RESTROOM.