



ATTACK PRECISION CLEANER

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard (29CFR 1910.1200)

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SECTION I – PRODUCT IDENTIFICATION

Product Name:	ATTACK Precision Cleaner	Proper Shipping Name:	N/A
Product Number:	1154	Date Prepared:	09/18/2007
Product Description:	Clean Air Solvent	Prepared By:	Paul Williams
Information Phone:	(800) 334-7071	24-Hour Emergency Phone:	(800) 255-3924

NFPA – HMIS CODES

Health	1	Flammability	2	Corrosive	0	Reactivity	0	Personal Protection	G
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SECTION II – MATERIAL IDENTIFICATION AND INFORMATION

Description	CAS Number	CARCINOGEN	SARA III List	OSHA PEL (ppm)	ACGIH TLV (ppm)	Wt %
1-Methyl-4-(1-Methylethenyl)-cyclohexene	5989-27-5	NO	NO	N/E	N/E	
Alkylaryl Sulfonate, Isopropylamine Salt	26264-05-1	NO	NO	N/E	N/E	
Mixture of Surfactants	N/A	NO	NO	N/E	N/E	

ATTACK is a mixture of predominantly isomers of citrus terpenes (p-menthadienes, C₁₀H₁₆). The specific mixture of ingredients is considered to be a trade secret and is withheld in accordance with the provisions of 1910.1200 of Title 29 of the Code of Federal Regulations. Mixture is believed not to contain any toxic chemicals in quantities subject to reporting of SARA (1986, Section 313, Title III) and 40 CFR 372. Recommended Occupational Exposure Limit of 100 ppm (8-Hour Time Weighted Average) is based upon the ACGIH recommendation for components of the same chemical family.

OSHA Regulatory Status: This material is combustible, which is defined as having a flash point between 100°F (38.7°C) and 200°F (93.3°C). Combustible materials are hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	310°F	Evaporation Rate (n-Bu-Ac=1.0)	Medium to Fast
Vapor Pressure	2 mmHg	Freezing Point, °F	>-100
Vapor Density (Air=1.0)	4.7	Appearance	Clear Light Amber Liquid
API Specific Gravity	0.838-0.843 @ 68°F	Odor	Citrus Aroma
VOC (Grams/Liter @ 25°C – 5% w/Water)	42.8	Water Solubility (Wt %)	Insoluble
Total VOC %	>95		

SECTION IV – FIRE & EXPLOSION HAZARD DATA

Flash Point (ASTM D92)	115°F (TCC)
Auto Ignition Temperatures	458°F (236°C) Estimated
Flammability Limits in Air	
Lower Explosive Limit Estimated	0.7%
Upper Explosive Limit Estimated	6.1 %
Extinguishing Media	Carbon Dioxide, Foam, Dry Chemical
Unusual Fire Fighting Procedures	Combustible – Keep away from heat, sparks and open flame. Store soaked or damp rags in approved covered waste can or soak rags with water. Do not dispose of solvent soaked combustible materials in an open dumpster or trash can. Failure to properly dispose of these materials can cause a fire.
Special Fire Fighting Procedures	Wear self-contained breathing apparatus. Smother to exclude air. Water may spread fire. Handle as an oil fire.



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SECTION V – HEALTH HAZARD DATA & EMERGENCY FIRST AID PROCEDURES

	ADVERSE/CHRONIC EFFECTS	FIRST AID PROCEDURES
EYES	May cause moderate to high irritation.	Remove contact lens immediately, if worn. Flush with large amounts of cool running water using eyecup or fountain for at least 15 minutes while lifting upper and lower lids open. Seek medical attention if irritation persists.
INGESTION	Harmful if swallowed. May cause vomiting, headache and other medical problems.	Seek immediate medical attention. DO NOT INDUCE VOMITING. Rinse mouth with water then drink one glass of water. Do not leave victim unattended or give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.
INHALATION	Vapors may cause nose, throat and respiratory tract irritation, coughing and headache. Repeated exposure to high concentrations may cause liver and kidney damage.	Remove to area of fresh air. Seek medical attention if effects are persistent.
SKIN	Prolonged or repeated contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis.	Remove contaminated clothing. Wash exposed area with plenty of soap and water. If irritation develops, seek medical attention.
MEDICAL CONDITIONS TO AVOID	Persons with pre-existing skin conditions or allergies should avoid contact with this product.	
CARCINOGEN	Mixture is not considered a carcinogen by OSHA, IARC, NTP, or ACGIH. All components are TSCA listed.	

SECTION VI – REACTIVITY DATA

STABILITY	Stable
HAZARDOUS POLYMERIZATION	None described – Avoid catalysts such as aluminum chloride and acidic clays.
CONDITIONS TO AVOID	Avoid heat, sparks, open flame and temperatures above 115°F.
INCOMPATIBILITY	Strong oxidizing agents and acidic agents including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride.
HAZARDOUS DECOMPOSITION	Smoke may be acrid and fumes irritating. If burned, normal combustion products are carbon dioxide, carbon monoxide and smoke.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED – Use protective gloves to avoid skin contact. Confine and isolate spill. Small spills may be wiped up. Large spills should be picked up with a pump or with absorbents. Store used absorbents in approved covered waste can or soak with water before disposal. Do not hose spills down drains, sewers or waterways. ATTACK may be toxic to aquatic organisms. Move leaking containers to well-ventilated area. No smoking. Eliminate all sources of ignition. Wash floor to prevent slipping.	
WASTE DISPOSAL	Dispose of in accordance with Federal, State and Local Regulations.
HANDLING & STORAGE	Store in a cool, dry area in sealed containers away from heat, sparks or open flame. Do not get into eyes, on skin or clothing. Remove and launder contaminated clothing before reuse.
OTHER PRECAUTIONS	KEEP OUT OF REACH OF CHILDREN – Read and follow label directions. For Industrial/Institutional Use Only.

SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION	Use NIOSH approved organic vapor respirator where Occupational Exposure Limit (OEL) may be exceeded. Use only in well-ventilated areas.
VENTILATION	Mechanical (general) ventilation is usually adequate.
PROTECTIVE GLOVES	Nitrile, Viton or PVC gloves recommended.
EYE PROTECTION	Approved safety glasses with side shields or chemical proof goggles.
OTHER PROTECTIVE CLOTHING/EQUIPMENT	Eye bath, safety shower and oxygen mask should be available. Safety glasses should be worn.
WORK HYGIENIC PRACTICES	Employees must practice good personal hygiene; washing exposed areas of skin several times daily and before eating, drinking, smoking, using restroom and at end of work period. Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing and launder before reuse.

SECTION IX – TRANSPORTATION DATA

PROPER SHIPPING NAME	Terpene Hydrocarbons, N.O.S.
DOT ID NUMBER	UN2319
DOT HAZARD CLASS	3, Flammable Liquid
PACKING GROUP	III
DOT LABEL/PLACARD	Exception §173.150(f) applies
HIGHWAY/RAIL	Per requirements for Combustible Liquids
AIR/SHIP	Per requirements for Flammable Liquids
The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptions.	

The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

N/D = Not Determined

N/A = Not Applicable

< = Less Than

> - Greater Than

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