

Material Safety Data Sheet

Section 1 Chemical Product and Company Identification

Manufacturer
Federal Process Company
4620 Richmond Road
Cleveland OH 44128

Emergency Telephone Number Call Chemtrec at 1-800-424-9300
Product Identifier: Free All® Deep Penetrating Oil Aerosol
Product Description: Complex Mixture
Product Use: Penetrating Oil

Section 2 Composition/Information on Ingredients

Additional information is provided in the Regulatory section of this document for Sara 313, California Proposition 65, and various state right-to-know laws.

Chemical Name	CAS #	OSHA PEL	ACGIH TLV	% BY WT.	VAPOR PRESSURE Mm Hg @ Temp. .01mm @ 68
Petroleum Oil	64742-52-5	5.0 mg/m3 : oil mist		28-33%	
* Hexone, Methyl Isobutyl Ketone	108-10-1	50 ppm	100 ppm	22-29%	15 mm @ 68
Propellants (Propane)	74-98-6	1000 ppm	Asphyxiate	8-11%	6350mm @ 68

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

Section 3 Hazards Identification

HMIS HAZARD IDENTIFICATION

Health 1 Flammability 4 Reactivity 0

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Skin: contact may dry the skin; prolonged contact may cause moderate irritation. Eyes: liquid or vapor can cause moderate to severe irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Not easily absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Not a likely route of exposure. If swallowed, seek immediate advice and/or attention.

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute: eye irritant. Possible skin irritant. Chronic: none known.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

Section 4 First Aid Measures

INHALATION: If affected, remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.

INGESTION: Do not induce vomiting, consult a physician immediately.

EYES: Flush eyes immediately with large quantities of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Get medical attention if irritation persists. Remove and launder clothing before re-use.

Section 5 Fire Fighting Measures

EXTINGUISHING MEDIA: Foam (Aqueous Film Forming Foam), dry chemical, carbon dioxide, water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

FLASH POINT: 60 F TCC

FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.2 UPPER: 9.5

Section 6 Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

Section 7 Handling and Storage

STORAGE CATEGORY: Not available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated – Do not smoke – Extinguish all flames, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of reach of children. .

Section 8 Exposure Controls/Personal Protection

PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

VENTILATION REQUIREMENTS: Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

PERSONAL PROTECTION:

EYE: The wearing of protective safety glasses with unperforated sideshields is recommended when handling any chemicals.

GLOVES: Non required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

RESPIRATORY: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2..

OTHER: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 Physical and Chemical Properties

BOILING RANGE: 237 F – 500 F
MELTING POINT Not available
EVAPORATION RATE Slower than ether
VAPOR DENSITY: Heavier than air
WATER SOLUBILITY: Nil
SPECIFIC GRAVITY (H₂O=1) 0.80
APPEARANCE AND ODOR: AEROSOL PRODUCT

Section 10 Stability and Reactivity

STABILITY: This product is stable under recommended conditions of storage and handling.

CONDITIONS TO AVOID: Application to hot surfaces; storage above 120 F; exposure to open flame.

INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 Toxicological Information

CHRONIC HEALTH HAZARDS: No ingredient in this product is an IARC, NTP, or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to urinary systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA:

CAS No.	INGREDIENT NAME	LC50	RAT	4HR	Not Available
74-98-5	Propane	LD50	RAT		Not Available
106-97-8	Butane	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-10-1	Methyl Isobutyl Ketone	LC50	RAT	4HR	Not Available
		LD50	RAT		2080 mg/kg

Section 12 Ecological Information

ECOTOXICOLOGICAL INFORMATION: No data available.

Section 13 Disposal Considerations

WASTE DISPOSAL METHOD: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 Transportation Information

DOT HAZARD CLASS: ORM-D
PROPER SHIPPING NAME: Consumer commodity

IDENTIFICATION NUMBER:

None

Section 15 Regulatory Information

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS No.	CHEMICAL/COMPOUND	% BY WT.	% ELEMENT
108-10-1	Methyl Isobutyl Ketone	24	

CALIFORNIA PROPOSTION 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

TSCA CERTIFICATION: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 Other

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, Federal Process Corporation makes no warranty, either express or implied, including merchantability and fitness, and assumes no liability in connection with any use of this information.

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.