

SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Free All

Product Code: RE 12, RE01, RE06 Product Type: Aerosol

Product Use: Penetrant

Manufacturer: Federal Process Corp

Revision Date: 11/05/2014

Address: 4520 Richmond Road

Cleveland, Ohio 44128

Phone: 1-800-846-7325

Emergency Phone Number: Call Chemtrec at 1-800-424-9300

NOTE: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. We provide this information as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards. We provide this information as guidance for providing personal protection to your employees.

2. Hazards Identification

Classification of Substance or mixture

Aerosols	Category 1
Aspiration Hazard	Category 1
Acute Toxicity (inhalation)	Category 4
Skin irritation	Category 2
Eye Damage/irritation	Category 2A
Specific target organ toxicity Single exposure	Category 3

GHS Label Elements

Pictograms



Signal Word: Danger:

Hazard Statements:

H222 Extremely flammable aerosol

H229 Pressurized container: may burst if heated
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H332 Harmful if inhaled
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statements:

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn
P264 Wash hands thoroughly after handling
P280 Wear protective gloves/eye protection / face protection
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well ventilated area
P262 Wash hands thoroughly after handling

Response:

P301+P310 If Swallowed: Immediately call a poison center or doctor
P302+P352 If on skin: Wash with plenty of soap and water
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call poison center/doctor/ if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention
P305+P351+
P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do not induce vomiting
P337 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up
P410+P412 Protect from sunlight. Don not expose to temperatures exceeding 50°C/122°F
P501 Dispose of contents/container in accordance with local/regional regulations

3. Composition / Information on Ingredients

Ingredients	CAS #	Percent
Carbon Dioxide	124-38-9	.1-10 %
Distillates, petroleum, hydrotreated light	64742-47-8	5-15%
Petroleum Oil	64742-52-5	25-35%
Oleic Acid	112-80-1	25-35%
Methyl Isobutyl Ketone	108-10-1	25-35%

4. First Aid Measures

Eye Contact:

Flush with warm water for 15 minutes. Seek medical attention.

Skin Contact:

Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

Inhalation:

Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary. Contact a physician.

Ingestion:

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

5. Fire Fighting Measures

Flash Point: Flash point of liquid portion 104°F

Flammable limits liquid portion @ 77 deg:

Upper: 5.6.

Lower: 0.7

Auto-ignition temperature of liquid portion 689F

Extinguishing Media:

Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards:

This material may be ignited by extreme heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures:

At elevated temperatures (over 130F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions

Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling:

Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers Do not incinerate

Storage:

Store in a cool, dry area, away form heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment:

Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls:

General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

Respiratory Protection:

Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components is exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above exposure levels an approved self-contained breathing apparatus or airline respirator with full face-piece is required

Other Suggested Equipment:

Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised:

We. take no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Exposure guidelines:

Ingredients	CAS #	Percent	Exposure Limits
Carbon Dioxide	124-38-9	.1-10 %	OSHA (PEL) 5000 ppm ACGIH TLV 5000 ppm
Distillates, petroleum, hydrotreated light	64742-47-8	5-15%	Supplier (TWA) 100 ppm
Petroleum Oil	64742-52-5	25-35%	TVL Oil Mist 5mg/m3

Oleic Acid	112-80-1	25-35 %	None established
Methyl Isobutyl Ketone	108-10-1	25-35 %	OSHA (TWA) 50 ppm ACGIH (TLV) 50 ppm

9. Physical and Chemical Properties

Boiling Point: NA
Vapor Density: >1(Air=1)
Odor/Appearance: Clear mist as dispensed from aerosol can.
Evaporation Rate: Ether = 1 Slower

Specific Gravity: <1
Water Solubility: Negligible

10. Stability and Reactivity

Stability: Stable
Conditions to Avoid: Heat, spark, and open flame
Incompatibility: Strong-Oxidizing Agents
Hazardous Decomposition: Combustion will produce Carbon Monoxide, Carbon Dioxide and hydrocarbons..
Hazardous Polymerization: Will not occur

11. Toxicological Information

Component Toxicological Information:

Oleic acid

Oral Rat LD50: 74,000 mg/kg
IrritationRabbit 500 mg open mild

Methy Isobutyl Ketone

Oral Rat LD50 2080 mg/kg
Inhalation Rat LC50 2000-4000 ppm 4h
Acute dermal toxicity Rabbit LD50 > 10ml/kg
Skin irritation rabbit Mild Skin Irritation
Eye Rabbit Moderate eye irritation

Distillates, petroleum, hydrotreated light

Acute Oral LD50 Rat >5,000 mg/kg
Acute Inhalation LC50 Rat (4 hour) >6.8 mg/l
Acute dermal LD50 rabbit: 2,000 – 4,000 mg/kg

12. Ecological Information

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.
Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

PERSISTENCE AND DEGRADABILITY

Biodegradation: Material -- Expected to be readily biodegradable.
Hydrolysis: Material -- Transformation due to hydrolysis not expected to be significant.
Photolysis: Material -- Transformation due to photolysis not expected to be significant.
Atmospheric Oxidation: Material -- Expected to degrade rapidly in air

13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

14. Transport Information

Aerosols (limited quantity),
Class 2.1, ERG 126

AIR (IATA)
Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950
Vessel
Aerosol (Limited Quantity), Class 2.1, UN No 1950

15. Regulatory Information

Environmental Regulations

Clean Water Act/Oil Pollutions Act:

SARA 302/304:

None

SARA 311/312:

Immediate (x) Delayed () Fire (x) Reactive () Sudden Release of Pressure (x)

Section 313

Toxic chemical list:

Methyl Isobutyl Ketone

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

Level 3 Aerosol

HMIS: Health: 2 Flammability: 3 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. We make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an SDS does not indicate that the possessor of the SDS was a purchaser or user of the subject product.