

SECTION I - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: ACF-50® Non-Flammable Aerosol
Product Code: 10013

Use of Substance/Preparation: ACF-50® is an industrial product designed to prevent and treat corrosion on non-ferrous and ferrous metals, protect electronic equipment, and to lubricate/penetrate mechanized parts.

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Date of Preparation January 29, 2017

SECTION 2 – HAZARDS IDENTIFICATION

Appearance:	Purple	Physical State:	Liquid	Odor:	Aromatic
Health:	Acute Toxicity				
	Oral-Eye-Dermal:	Category 5			
	Inhalation:	Category 4			
Environmental:	Not Classified				
OSHA Defined:	Not Classified				
Labels:					



Signal Word: **WARNING**

H227: Combustible Liquid

P210: Keep Spray Away From Open Flame

H229: Pressurized container-may burst if heated

P251: Do not puncture

H305: May be harmful if swallowed and enters airways

P331+P314: Do Not Induce Vomiting, Get Medical Attention if Feeling Unwell

H320: May Cause eye irritation

P305+P331+P358: If Sprayed Into Eyes Rinse with Water, Remove Contacts if Present, Continue to Rinse with Water

Precautionary Statements – Prevention: Wash thoroughly after handling. Avoid spraying in eyes or breathing mist/spray. Do not ingest.

Precautionary Statements – Response

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse eyes with water

Precautionary Statements – Storage: Do not store long term in direct sunlight.

Precautionary Statements – Disposal: Do not incinerate

Hazards not otherwise classified (HNOC)-Not Applicable

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances present on their own: None

Substances present at a concentration below the minimum danger threshold:

NAME:	CAS	EC	%
Solvent naphtha	64742-88-7	265-191-7	<10%
Hydrotreated neutral oil	72623-85-9	276-736-3	70-100%
Carbon Dioxide (propellant)	124-38-9	204-696-9	1%
Tetrafluoroethane 1,1,1,2 (propellant)	811-97-2	212-377-0	5-10%

SECTION 4 - FIRST AID MEASURES

- Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
- Skin Contact** Remove excess by wiping, followed by washing with soap and water.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should give oxygen). If breathing stops apply CPR and call physician.
- Ingestion:** Rinse mouth immediately with water. Give 1/2 pint/200ml of milk to drink. Never give anything by mouth to an unconscious person. **DO NOT INDUCE VOMITING**. If vomiting takes place naturally, lean victim forward to prevent aspiration into lungs. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Physician's assessment is mandatory. **Note to Physician: Consult standard literature for Hydrocarbon poison.**

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

- Suitable Extinguishing Media:** CO², Dry Chemical, Foam, Water Spray
- Un-Suitable Extinguishing Media:** Water Jet which might spread flames
- Special Hazards From Burning:** May produce normal products of combustion including: Carbon Oxides (CO- CO²) Nitrogen oxides (NO²-NO) Sulfur oxides (SO²-SO₃).
- Fire Fighting Procedures:** Cool containers with water spray to prevent pressure build-up, auto-ignition or explosion. Self-Contained Breathing Apparatus (SCBA) may be required if containers rupture under thermal conditions.
- General Fire Hazards:** Aerosol cans are an explosion risk when exposed to fire
- Explosion Data:** Sensitivity to Mechanical Impact when exposed to fire

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Eliminate sources of ignition. Stop leak if you can do it without risk. Keep unnecessary personnel away from spill slip hazard.
- Small Spill:** Wipe up spills with absorbent cloth and clean surface with approved soap.
- Large Spill:** Stop or reduce flow with barricades – Absorb spills using dry clay, commercial sorbents. Collect residue into suitable container for disposal. Material may be drained into floor drains equipped with Oil Interceptors. Never return contaminated spilled liquid to original container. See Section 13 for Disposal Considerations.
- Environmental Precautions:** Prevent spill from entry into waterways, sewers, basements or confined areas.



SECTION 7 - HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities:

Storage: Avoid ignition sources. Do not store 49C° or 120F°. Keep containers in cool and well-ventilated place. Do not store long term in direct sunlight. Keep out of the reach of children.

Incompatible Products: None known

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

Appropriate Engineering Controls:

Ventilation: None normally needed

Individual Protection:

Respiratory Protection: None normally needed.

Protective Gloves: None normally required. Excessive contact may cause drying, chapping of skin

Eye Protection: None normally required

Other Protective Clothing: None normally required.

Work/Hygienic Practices: Wash hands and face with soap and water after use. Launder soiled clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties of Liquid

Physical State: Liquid
Appearance: Purple
Odor: Fresh Scent
Odor Threshold: Not established

Property	Values
pH	7
Melting / freezing point	No data available
Boiling point / boiling range	>100C° / 212 F°
Flash Point	79.4C° /175F° PMCC
Evaporation Rate	Slower (Butyl acetate=1)
Flammability (solid, gas)	No data available
Flammability Limit in Air	Solvent Component Only
Upper flammability limit	UEL: 6.0
Lower flammability limit	LEL: 1.0
Vapor pressure	No data available
Vapor density	Heavier than air (Air=1)
Specific Gravity	0.90
Water Solubility	Slight with agitation

Solubility in other solvents Soluble in Naphtha
Partition coefficient:
n-octanol/water No data available
Auto ignition temperature >210C° /410 F°
Decomposition temperature No data available
Kinematic viscosity 25 cSt @ 40 C°
Dynamic viscosity No data available
VOC Content (%) 90gm/l

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to avoid: Avoid Oxidizing materials (Liquid or compressed oxygen, peroxides, chlorine), strong alkalis.

Decomposition Products: Thermal conditions produce normal products of combustion including: Carbon Oxides (CO- CO²), Nitrogen oxides (NO²-NO), Sulfur oxides (SO²SO₃)

Reactivity:

Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

ACF-50 liquid has been tested (oral, eye, dermal) as a complete mixture and is considered "non-toxic" under normal use with an extremely low order of toxicity at or below a Category 5 rating.

Primary Routes of entry:

Acute Oral: LD50 > 5000 mg/kg

Acute Dermal: LD50 > 5000 mg/kg

Acute Eye: LC50 > 5000 mg/kg

Acute Vapor LC50 > 5000 ppm -Rat-Aliphatic hydrocarbon

(estimated) LC50 > 5000 ppm -Rat-Petroleum distillate

Tetrafluoroethane 1,1,1,2 Acute Vapor. LC50 > 500,000ppm (rat)

Acute Eye: LD50 None Determined **Acute Dermal:** None

Carcinogenicity: Mixture not carcinogenic according to EPA, NTP, IARC, OSHA, TLV, MAK, NIOSH or ACGIH definitions.

Sensitization: Non-sensitizer

Mutagenic effects: No

Tetra genic: No

Reproductive: No

Developmental: No

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation: **May cause headache, nausea, or dizziness.** Over exposure to vapor may cause CNS depression or confusion. Tetrafluoroethane is rapidly metabolized in tissue, after inhalation and eliminated with expelled air. May act as a simple asphyxiant if air is displaced by excess vapor.

Skin / Eyes: **May cause drying, chapping of skin and may cause redness of eyes. Chilling sensation with liquid evaporation**

Ingestion: Not likely to occur.

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect based on information supplied

Target Organ Effects Respiratory system. Central Vascular System (CVS).

Aspiration Hazard May be harmful or fatal if aspirated into lungs. Treat at hydrocarbon poisoning.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-gas)
7,189,062.00

ATEmix (inhalation-dust/mist)
2.48 mg/l

SECTION 12- ECOLOGICAL INFORMATION

Eco toxicity: Environmental impact of this product has not been fully investigated.

Persistence and Degradability No information available.

Bioaccumulation No information available

Other adverse effects No information available.



SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Spilled liquid should be treated as contaminated oil and disposed of according to the appropriate state, regional, or local regulations.

Used Packaging: Empty Aluminum containers can be recycled

California Hazardous Waste Codes NA

SECTION 14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name CONSUMER COMMODITY
Hazard Class ORM-D
Description CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number 126

TDG

UN-No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Description UN1950, AEROSOLS, 2.2

IATA

UN-No. UN1950
Proper Shipping Name AEROSOLS, NON-FLAMMABLE
Hazard Class 2.2
Description UN1950, AEROSOLS, NON-FLAMMABLE, 2.2



IMDG/IMO

UN-No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
EmS-No. F-D, S-U
Description UN1950, AEROSOLS, 2.2



RID / ADR

UN-No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Classification code 5A
Description UN1950 AEROSOLS, 2.2

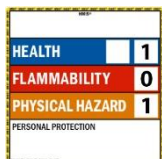
ADN

UN-No. UN1950
Proper Shipping Name AEROSOLS
Hazard Class 2.2
Classification code 5A
Special Provisions 190, 327, 344, 625
Description UN1950 AEROSOLS, 2.2
Hazard Labels 2.2
Limited Quantity 1 L
Ventilation VE04

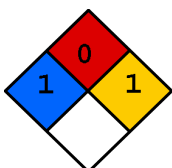
SECTION 15 - REGULATORY INFORMATION

This preparation was classified in compliance with GHS Directives and is not known to be classified on any EC lists or other source literature.

WHMIS	Not Controlled
U.S. Federal Regulations:	Not Regulated
TSCA Inventory (USA)	Reported/Included
DSL (Canada)	Reported /Included
SARA 302/355 Extreme Hazard:	NO
CERCLA:	NO
SARA 313 Toxic Chemical:	NO
SARA 311/312 Hazardous:	NO
Prop 65	No to All
ELINCS (Europe)	No
ENCS (Japan)	Yes
AICS (Australia)	Yes

SECTION 16 – OTHER INFORMATION


NFPA STD.704 Health -1 Flammability-0 Reactivity-1
 NFPA STD.321: Combustible Liquid, Class III 3A



HMIS Health -1 Flammability-0 Reactivity-1

Lear Chemical believes all the information provided is true and accurate. Lear Chemical and its affiliates assume no responsibility for injury to anyone caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Lear Chemical Research Corp. and affiliates assume no responsibility for injury to anyone caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendor and third persons assume the risk in their use of the material.

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Prepared by: Lear Chemical Research Corp.