



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

Product Name: ACF-50® BULK Liquid
Product Code: 10004, 10020, 10032, 10114, 10205

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 March 23, 2015

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

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 splashing 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: Store in a well-ventilated place

Precautionary Statements – Disposal: None

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	5-15%
Hydrotreated neutral oil	72623-85-9	276-736-3	70-100%

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:** No unusual fire or explosion hazards

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 approve 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 70C° or 158F°. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
- Incompatible Products:** None known

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:****Appropriate Engineering Controls:****Ventilation:** Provide sufficient General or Mechanical ventilation to maintain exposure below flammable limits.**Individual Protection:****Respiratory Protection:** None normally needed - Unless atomizing in enclosed space, then use approved NIOSH organic, mist/vapor respirator. If exposure limits are exceeded or irritation, headache, nausea, or dizziness is experienced, ventilation and evacuation may be required.**Protective Gloves:** None normally required. Excessive contact may cause drying, chapping of skin, may cause redness of eyes and tearing.**Eye Protection:** None normally required, unless operator is using high-pressure spray equipment or splashing is likely.**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****Physical State:** Liquid
Appearance: Blue Green
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

Corrosion Block 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 Eye:	LC50 > 5000 mg/kg
Acute Dermal:	LD50 > 5000 mg/kg	Acute Vapor (estimated)	LC50 > 5000 ppm -Rat-Aliphatic hydrocarbon LC50 > 5000 ppm -Rat-Petroleum distillate

Carcinogenicity:	None 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
Skin / Eyes:	May cause drying, chapping of skin and may cause redness of eyes
Ingestion:	May be harmful or fatal if swallowed
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	No information available.

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

Waste treatment methods

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 HDPE/LDPE containers can be recycled

California Hazardous Waste Codes NA



SECTION 14 - TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RIC-GGVS/E	Not Regulated
Maritime transport IMDG:	Not Regulated
Marine pollutant:	Not expected to be.
AIR transport ICAO-TI and IATA-DGR:	Non-Hazardous, Non-Regulated

SECTION 15 - REGULATORY INFORMATION

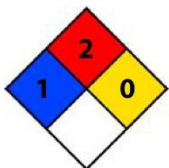
This preparation was classified in compliance with GHS Directives and is not known to be classified on any EC lists or other source literature.

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-2	Reactivity-0
NFPA STD.321:	Combustible Liquid, Class III 3A		



HMIS	Health -1	Flammability-2	Reactivity-0
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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.

Date Issued: March 2015

Prepared by: Lear Chemical Research Corp.