ACF-50 Aerosol (prepared to WHMIS2015)

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

Product Name: **ACF-50® 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.

Manufacturer: **Lear Chemical Research Corp.**
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Date of Preparation **November 6, 2018**

SECTION 2 – HAZARDS IDENTIFICATION

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

Signal Word: **WARNING**

Hazard statements:
H229 – Pressurized container: May burst if heated
H315 – Causes skin irritation
H319 – Causes serious eye irritation

Precautionary Statements – Prevention:
P102 – Keep away from children
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 – Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response
P302+P352 – IF ON SKIN: Wash with plenty of water
P362+P364 – Take off contaminated clothing and wash it before reuse
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice/attention

Precautionary Statements – Storage:
P410 + P412 – Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

Precautionary Statements – Disposal:
P251 – Do not pierce or burn, even after use

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	%
Hydrotreated neutral oil	72623-85-9	276-736-3	70-100%
Solvent naphtha	64742-88-7	265-191-7	<10%
Tetrafluoropropene 1,3,3,3 (propellant)	29118-24-9	471-480-0	1-3%
Carbon Dioxide (propellant)	124-38-9	204-696-9	1-3%

SECTION 4 - FIRST AID MEASURES

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

Skin Contact: Remove excess by wiping, followed by washing with soap and water.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion: Unlikely route of exposure.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media:
Suitable Extinguishing Media: CO^2, Dry Chemical, Foam, Water Spray
Un-Suitable Extinguishing Media: Water Jet which might spread flames

Special Hazards arising from the substance or mixture:
Fire hazard: NOT classified as a flammable aerosol
Explosion hazard: Product is not explosive. Pressurized container: May burst if heated
Reactivity: None to our knowledge

Advice for firefighters:
Firefighting instructions: 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.
Explosion hazard**:** Aerosol containers are an explosion risk when exposed to fire

SECTION 6 - ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.
Personal precautions, protective equipment and emergency procedures:
Eliminate sources of ignition. Stop leak if you can without risk. Keep unnecessary personnel away from spill slip hazard.

Environmental precautions: Prevent spill into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up: Collect spillage and dispose of according to Section 13. Absorb spillages onto any suitable absorbent material. Scoop absorbed substance into closing containers. Wash clothing and equipment after handling.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Additional hazards when processed	Avoid contact with skin and eyes. Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	None normally required
Hygiene measures	Observe normal hygiene standards. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse

Conditions for safe storage, including any incompatibilities

Storage temperature	Do not store exceeding 50°C or 120°F
Storage life	Stable under normal conditions
Heat and ignition sources	Avoid heat / ignition sources
Storage area	Meet the legal requirements. Protect from heat and direct sunlight. Keep container in a cool, dry, well ventilated place
Special rules on packaging	Meets the legal requirements. Correctly labelled.
Packaging materials	None normally required
Specific end use(s)	Prevent/treat corrosion, lubricate, penetrate

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

Control parameters:	No information available

Exposure Controls:

Appropriate engineering controls:	Does not require specific or particular technical measures
Personal protective equipment:	None normally required.
Eye Protection:	None normally required, unless operator is using high-pressure spray equipment or splashing is likely.
Work/Hygienic Practices:	Wash hands and face with soap and water after use. Launder soiled clothing.
Ventilation:	Provide sufficient general or mechanical ventilation to maintain exposure below flammable limits.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical State:	Liquid	**Appearance:**	Aerosol
Odor:	Fresh Scent	**Odor Threshold:**	Not established

Property	**Values**	**Property**	**Values**
pH	7	Specific Gravity	0.90
Melting / freezing point	No data available	Water Solubility	Slight with agitation
Boiling point / boiling range	>100C°/ 212 F°	Solubility in other solvents	Soluble in Naphtha
Flash Point	79.4C° /175F° PMCC	Partition coefficient	
Evaporation Rate	Slower (Butyl acetate=1)	n-octanol/water:	No data available
Flammability (solid, gas)	No data available	Auto ignition temperature	>210C°/410 F°
		Decomposition temperature	No data available
Flammability Limit in Air	Solvent Component Only	Kinematic viscosity	25 cSt @ 40 C°
Upper flammability limit	UEL: 6.0	Dynamic viscosity	No data available
Lower flammability limit	LEL: 1.0	VOC Content (%)	90gm/l
Vapor pressure	No data available		
Vapor density	Heavier than air (Air=1)		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	No hazardous reactions known if used for intended purpose.
Conditions to avoid:	Heat and direct sunlight.
Incompatible materials:	Oxidizing substances.
Hazardous decomposition products:	Thermal conditions produce normal products of combustion e.g.: carbon oxides, nitrogen oxides, sulfur oxides.

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 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

Information on toxicological effects:

Acute Toxicity:	Not classified
Skin corrosion/irritation:	Non irritant
Serious eye damage/irritation:	Non irritant
Respiratory or skin sensitization:	Not a skin sensitizer
Germ cell mutagenicity	Not classified
Carcinogenicity	Mixture not carcinogenic according to EPA, NTP, IARC, OSHA, TLV, MAK, NIOSH or ACGIH definitions
Reproductive Toxicity	Not classified
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration Hazard	None

Tetrafluoropropene 1,3,3,3	**Acute Vapor:**	Potential acute Inhalation – no know significant effects
	Acute Eye:	Possible eye burns, similar to frostbite
	Acute Dermal:	Possible skin burns, similar to frostbite

SECTION 12- ECOLOGICAL INFORMATION

Toxicity:	No data available
Persistence and degradability:	No data available
Bio accumulative potential:	The product has no potential for bio accumulation
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	This mixture does not meet the PBT / vPvB criteria of REACH regulation, Annex XIII
Other adverse effects:	None known

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods when	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even empty. Non-empty aerosol: Dispose of waste in an approved waste disposal facility. Do NOT landfill.
Additional Information:	Disposal should be in accordance with local, state or national legislation.
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, 2.1
RID / ADR	**UN-No.**	UN1950
	Proper Shipping Name	AEROSOLS
	Hazard Class	2.2
	Classification code	5A
	Description	UN1950 AEROSOLS, 2.1
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

LABEL

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

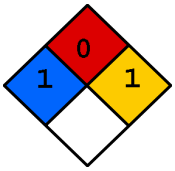
SECTION 15 - REGULATORY INFORMATION

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.

Date Issued: September 28, 2018 Prepared by: Lear Chemical Research Corp.