SECTION 1: Identification

1.1 Product Identifier

Product form : Mixture
Product name : **ACF-50® Bulk Liquid**
Product code : **10001, 10004, 10020, 10032, 10114, 10205**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance / mixture : 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.
Uses advised against : None unless specified elsewhere

1.3 Details of the supplier of the safety data sheet

Manufacturer: **Lear Chemical Research Corp.**
6182A Kestrel Road
Mississauga, ON Canada L5T 1Z2

Telephone: 00 905 564-0018
00 905-564-7077 (fax)
Email: info@learchem.com
www.learchem.com

1.4 Emergency telephone number

00 800 535-5053 (Canada & US)
00 352 323-3500 (International)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

General hazard statement : Read Label and Use as Directed
: May cause slight eye redness (Mixture Tested < Cat2B)
: May cause skin dryness (Mixture Tested < Cat3)
: May cause laxative effect if swallowed. Do not induce vomiting.
: Using as directed Not Expected to be Aspiration Hazard (>24mm²/s @40°C)

Regulation (EC) no. 1272/2008 (CLP)
GHS classification : Category 4, Flammable liquid

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning
Hazard pictograms : None required
Hazard statements : H227 - Flammable liquid
Precautionary statements : P280 - Wash thoroughly after handling. Manufacturer specifies No special PPE.
: P331 - Do NOT induce vomiting
: P370+P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish
: P403+P235 - Keep cool and in a dry place.
: P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations

2.3 Other hazards

: None known

SECTION 3: Composition /information on ingredients

3.1 Substance : Not applicable

3.2 Mixture : Substances present at a concentration below the minimum danger threshold

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Special Notes
Hydrotreated neutral oil	(CAS No) 72623-85-9 (EC No) 276-736-3	70 – 85%	GHS08, Carc. 1B; H350	<0.1% DMSO w/w extract
Stoddard solvent	(CAS No) 8052-41-3 (EC No) 232-489-3	5-9%	GHS08, Asp. Tox 1; H304 STOT RE 1; H372	

Full text H-statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation : Move to fresh air. If unconscious consult with physician.

Skin contact : Wash off with soap and plenty of water.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing. May cause eye irritation. Including redness, swelling, tearing, or temporary hazy vision.

Ingestion : DO Not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Delayed symptoms and effects: May cause gastrointestinal irritation. Such as abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.2 Most important symptoms and effects, both acute and delayed

: See Section 2 and Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

: Unlikely to be required but if necessary treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : CO^2, dry chemical, foam, water spray

Unsuitable extinguishing media : Water jet which may spread flames

5.2 Special hazards arising from the substance or mixture

Fire hazard : May produce normal products of combustion including: Carbon Oxides (CO- $C0^2$) Nitrogen oxides ($N0^2$-NO) Sulfur oxides ($S0^2$-SO3).

Explosion hazard : Product is not explosive.

Reactivity : None to our knowledge.

5.3 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 : No unusual explosion hazards.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections : For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Additional hazards when processed : None known.
Precautions for safe handling : None normally required
Hygiene measures : Observe normal hygiene standards.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature : Store between: 40 and 120°F
Storage life : Store in a cool area away from oxidizing agents.
Heat and ignition sources : Avoid heat / ignition sources
Special rules on packaging : Meets the legal requirements. Correctly labelled.
Packaging materials : HDPE/LDPE containers

7.3 Specific end use(s) : Apart from the uses mentioned in section 1. No other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

: CAS: 8052-41-3
Stoddard Solvent
: CAS: 72623-85-9 (EC: 276-736-3)
Lubricating oils (petroleum), C20 -50, hydrotreated neutral oil-based, high-viscosity, if they contain > 3 % w/w DMSO extract

8.2 Exposure controls

Appropriate engineering controls : Does not require and specific or particular technical measures.
Personal protective equipment : None normally needed/required.
Eye protection : Distribution, Workplace and Household/Retail Settings: No special protective equipment required, unless extreme splashing likely during use.
Hygienic practices : Wash hands/face with soap and water after use. Launder soiled clothing.
Ventilation : No special ventilation requirements. Adequate ventilation to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Purple liquid
Odor	: Characteristic
Odor threshold	: Not established
pH	: 7
Melting point/ Freezing point	: No data available
Boiling point / boiling range	: > 100°C / 212°F
Flash point	: 79.4°C / 175°F 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	: 0.89
Water solubility	: slight with agitation
Solubility in other solvents	: soluble in naphtha
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: > 210°C / 410°F
Decomposition temperature	: No data available
Kinematic viscosity	: 25 cSt @40°C
Dynamic viscosity	: No data available
VOC content (%)	: 90gm/l
9.2 Other information	: No information available

SECTION 10: Stability and reactivity

10.1 Reactivity	: Stable under normal use conditions.
10.2 Chemical stability	: Stable under normal storage conditions.
10.3 Possibility of hazardous reactions	: No hazardous reactions known if used for intended purpose.
10.4 Conditions to avoid	: None under normal use conditions.
10.5 Incompatible materials	: Oxidizing substances.
10.6 Hazardous decomposition products	: May release COx, NOx, SOx, H2S, smoke and irritating vapors when heated to point of decomposition. In the event of fire: see section 5.

SECTION 11: Toxicological information

ACF-50 LIQUID HAS BEEN FULLY TESTED AS A COMPLETE MIXTURE FOR ORAL, EYE AND DERMAL TOXICITY. SUPPORTING DATA BASED ON THOSE EVALUATIONS. ACUTE TOXICITY IS AT OR ABOVE CATEGORY 4.

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

11.1 Information on toxicological effects

Acute toxicity	: Not Classified / Poses no Acute toxicity hazards.
Skin corrosion/irritation	: None found.
Serious eye damage/irritation	: Slight eye irritation (reversible)
Respiratory or skin sensitization	: None found.
Germ cell mutagenicity	: Based on available data, classification data are not met.
Carcinogenicity	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or a potential carcinogen.
Reproductive toxicity	: No data available.
STOT – single exposure	: Insignificant effects documented that do not justify STOT Classification.
STOT – repeated exposure	: Insignificant effects documented that do not justify STOT Classification.
Aspiration hazard	: Not Expected to be Aspiration Hazard (>24mm2/s @40°C)

11.2 Other information : None

SECTION 12: Ecological information

12.1 Toxicity : No data available

12.2 Persistence and degradability : Petroleum components are biodegradable in marine and soil environments.

12.3 Bio accumulative potential : The product has no potential for bio accumulation.

12.4 Mobility in soil : No data available

12.5 Results of PBT and vPvB assessment : This mixture does not meet the PBT / vPvB criteria of REACH regulation, Annex XIII

12.6 Other adverse effects : None known

SECTION 13: Disposal considerations

13.1 Waste treatment methods : Recycle only completely emptied packaging. Empty HDPE/LDPE containers can be recycled. Non-empty containers: Dispose of waste in an approved waste disposal facility. Treat as used oil. Do NOT landfill.

13.2 Additional information : Disposal should be in accordance with local, state or national legislation.

SECTION 14: Transport information

14.1 UN Number : Not regulated

14.2 – 14.6

Land (ARD/RID)	: Not regulated / Non Hazardous
Inland Waterways (ADNR/ADN)	: Not regulated / Non Hazardous
Sea (IMDG)	: Not regulated / Non Hazardous
Air (IATA)	: Not regulated / Non Hazardous

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not classified according to Annex II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture

15.1.1 EU-Regulations

Contains no REACH substances with Annex XV11 restrictions
Contains no substance on the REACH Candidate List
Contains no REACH Annex XIV substances

15.2 Chemical safety assessment

WHMIS	: Not controlled
US 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 (EU)	: No
ENCS (Japan)	: Yes
AICS (Australia)	: Yes

SECTION 16: Other information

Data Sources : Regulation (EU) 2016/918 amending Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006. Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), according to (EU) 2016/918

Legend

PBT	: Persistent, Bio accumulative and Toxic
vPvB	: very Persistent and very Bio accumulative
VOC	: Volatile Organic Compounds
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	: International Maritime Code for Dangerous Goods
IATA	: International Air Transport Association

H-codes contained in Section 3 of this document (for information only)

H304	: may be fatal if swallowed
H372	: causes damage to organs through prolonged or repeated exposure
H350	: may cause cancer

V0008 – April 29, 2021 – Revisions
Section 4, 7, 8, 9, 10, 12, 13: Statement information updated
Section 11: Toxicological Information clarified

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