

## SECTION 1: Identification

### 1.1 Product Identifier

Product form : Mixture  
Product name : **ACF-50® Aerosol**  
Product code : **10013**

### 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](http://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** : Substances present at a concentration below the minimum danger threshold.  
: 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 (>24mm<sup>2</sup>/s @40°C)

**Regulation (EC) no. 1272/2008 (CLP)**

**GHS classification** : Category 4, Flammable liquid  
: Category 3, Aerosol

### 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  
: H229 – Pressurized container: May burst if heated.

Precautionary statements

: P102 – Keep away from children.  
: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
: P211 – Do not spray on open flame or other ignition source  
: P280 – Wash thoroughly after handling. Manufacturer specifies No special PPE.  
: P370+P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish  
: P403+P235 – Store in a well ventilated place. Keep cool.



- : P410 + P412 – Protect from extreme sunlight conditions. Do not expose to temperatures exceeding 50°C / 122°F.
- : P251 – Do not pierce or burn, even after use
- : P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations
- : None known

## 2.3 Other hazards

### 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	
Tetrafluoropropene 1,3,3,3 (propellant)	(CAS No) 29118-24-9 (EC No) 810-135-4	1-3%		
Carbon Dioxide (propellant)	(CAS No) 124-38-9 (EC No) 204-696-9	1-3%		

Full text H-statements: See section 16

### SECTION 4: First aid measures

#### 4.1 Description of 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. Continue rinsing. If eye irritation persists, get medical advice/attention.
- Ingestion : Unlikely route of exposure.

#### 4.2 Most important symptoms and effects, both acute and delayed

: See Section(s): 2, 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<sup>2</sup>, 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 : NOT classified as a flammable aerosol
- Explosion hazard : Product is not explosive. Pressurized container: May burst if heated
- 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 : 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.

- 6.1 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. See Section 8.
- 6.2 Environmental precautions** : Prevent spill into waterways, sewers, basements or confined areas.
- 6.3 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.
- 6.4 Reference to other sections** : See Section(s): 8, 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 : Aerosol / Pressurized containers / Do NOT pierce or burn

### 7.3 Specific end use(s)

- : Apart from the uses mentioned in section 1.2 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 : Not normally required. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.
- Personal protective equipment : Distribution, Workplace and Household Settings: No special protective equipment required
- Eye protection : Distribution, Workplace and Household Settings: No special protective equipment required
- Hygienic practices : Wash hands/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

### 9.1 Information on basic physical and chemical properties

Appearance	: Aerosol
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
<b>Flammability limit in air</b>	<b>Solvent component only</b>
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
<b>9.2 Other information</b>	: No information available

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Stable under normal conditions.
<b>10.2 Chemical stability</b>	: Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	: No hazardous reactions known if used for intended purpose.
<b>10.4 Conditions to avoid</b>	: Heat and extreme sunlight conditions.
<b>10.5 Incompatible materials</b>	: Oxidizing substances.
<b>10.6 Hazardous decomposition products</b>	: Thermal conditions produce normal products of combustion e.g.: carbon oxides, nitrogen oxides, sulfur oxides.

## 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:

<b>Acute Oral:</b> LD50 > 5000 mg/kg	<b>Acute Eye:</b> LC50 > 5000 mg/kg
<b>Acute Dermal:</b> LD50 > 5000 mg/kg	<b>Acute Vapor:</b> LC50 > 5000 ppm -Rat-Aliphatic hydrocarbon <b>(estimated)</b> 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 (>24mm <sup>2</sup> /s @40°C)
Tetrafluoropropene 1,3,3,3	: <b>Acute Vapor:</b> Potential acute Inhalation – no know significant effects : <b>Acute Eye:</b> Possible eye burns, similar to frostbite : <b>Acute Dermal:</b> Possible skin burns, similar to frostbite

**11.2 Other information** : None

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	: No data available
<b>12.2 Persistence and degradability</b>	: Petroleum components are biodegradable in marine and soil environments.
<b>12.3 Bio accumulative potential</b>	: The product has no potential for bio accumulation.
<b>12.4 Mobility in soil</b>	: No data available
<b>12.5 Results of PBT and vPvB assessment</b>	: This mixture does not meet the PBT / vPvB criteria of REACH regulation, Annex XIII
<b>12.6 Other adverse effects</b>	: None known

## SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	: Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-empty aerosol: Dispose of waste in an approved waste disposal facility. Treat as used oil. Do NOT landfill.
<b>13.2 Additional information</b>	: Disposal should be in accordance with local, state or national legislation.

## SECTION 14: Transport information

<b>14.1 UN Number</b>	
UN-No.	: 1950
<b>14.2 UN proper shipping name</b>	
Proper Shipping Name (ADR)	: 1950 AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Transport document description (ADR /IMDG)	: UN 1950 AEROSOLS, 2.2
Proper Shipping Name (IATA)	: AEROSOLS, Non-flammable
Transport document description (IATA)	: UN 1950 AEROSOLS, Non-Flammable 2.2
<b>14.3 Transport hazard class(es)</b>	
Class / Classification (ADR)	: 2 5A Gases
Label	: 2.2



#### 14.4 Packing group

ARD, IMDG, IATA : None

#### 14.5 Environmental hazards

Other information : No supplementary information available

#### 14.6 Special precautions for user

Classification code (ADR) : 5A  
Special provisions (ADR) : 190, 327, 344, 625  
Transport category (ADR) : 3  
Limited quantities (ADR) : 1 L  
EmS-No. : F-D, S-U

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

Not applicable

## 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 : No

#### Hazard

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

V0006 – April 29, 2021 – Revisions

Section 4, 7, 8, 9, 10, 12, 13: Statement information updated

Section 11: Toxicological Information clarified

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