

AFL Electrical Joint Compound No. 2

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
Issue date: 7/22/2022 Revision date: 7/22/2022 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : AFL Electrical Joint Compound No. 2
Product code : 91

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Corrosion inhibitor
Restrictions on use : Industrial use

1.3. Supplier

Only Representative
CONTINENTAL PRODUCTS, INC.
#6 Midwest Drive, P.O. Box 338
Pacific, MO 63069 - USA
T 636-257-4449
kdb@contprod.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Met. Corr. 1	May be corrosive to metals
Acute Tox. 3 (Oral)	Toxic if swallowed
Acute Tox. 2 (Dermal)	Fatal in contact with skin
Acute Tox. 4 (Inhalation:vapour)	Harmful if inhaled
Skin Corr. 1B	Causes severe skin burns and eye damage
Eye Dam. 1	Causes serious eye damage
Skin Sens. 1	May cause an allergic skin reaction
STOT RE 1	Causes damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : May be corrosive to metals
Toxic if swallowed
Fatal in contact with skin
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Harmful if inhaled
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Precautionary statements (GHS US) : Keep only in original container.
Do not breathe dust/fume/gas/mist/vapors/spray.
Do not get in eyes, on skin, or on clothing.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center or doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a doctor.
Call a poison center or doctor if you feel unwell.
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material-damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
4-Oxazolemethanol, 4-ethyl-2-(8-heptadecenyl)-4,5-dihydro-	CAS-No.: 68140-98-7	15 - 40
Hydrofluoric acid	CAS-No.: 7664-39-3	3 - 7

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor/physician.

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Absorption of excessive F- can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys).
Symptoms/effects after inhalation	: Harmful if inhaled. May cause burns to the respiratory tract.
Symptoms/effects after skin contact	: Fatal in contact with skin. Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. Topical therapy with 2.5% calcium gluconate gel should be used to treat patients with symptoms of hydrofluoric acid skin burns. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical. Foam. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. Hydrogen fluoride.
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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Spilled material may present a slipping hazard. Provide ventilation. Absorb spillage to prevent material damage.

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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: May be corrosive to metals.
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, spray, vapors. Do not swallow. Handle and open container with care. When using do not eat or drink. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing must not be allowed out of the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of the reach of children. Store locked up. Keep container tightly closed in a cool, well-ventilated place. Keep only in original container.
Packaging materials	: Do not store in corrodable metal.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

AFL Electrical Joint Compound No. 2	
No additional information available	
4-Oxazolemethanol, 4-ethyl-2-(8-heptadecenyl)-4,5-dihydro- (68140-98-7)	
No additional information available	
Hydrofluoric acid (7664-39-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	0.5 ppm
ACGIH OEL Ceiling [ppm]	2 ppm
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
USA - ACGIH - Biological Exposure Indices	
BEI (BLV)	3 mg/g Kreatinin Parameter: Fluoride - Medium: urine - Sampling time: prior to shift (background, nonspecific) 10 mg/g Kreatinin Parameter: Fluoride - Medium: urine - Sampling time: end of shift (background, nonspecific)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [2]	3 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Wear eye/face protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Grease
Color	: Brown
Odor	: Pungent
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 176.7 °C (> 350 °F)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not flammable
Vapor pressure	: < 0.01 mm Hg @ 20 °C (68 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: 0.95
Solubility	: Insoluble.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. May be corrosive to metals.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hydrofluoric acid may be released if put into large amounts of water.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizers. Metals.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Hydrogen fluoride. Thermal decomposition generates : Corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Toxic if swallowed.
Acute toxicity (dermal) : Fatal in contact with skin.
Acute toxicity (inhalation) : Harmful if inhaled.

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ATE US (oral)	64 mg/kg body weight
ATE US (dermal)	64 mg/kg body weight
ATE US (vapors)	10.112 mg/l/4h

Hydrofluoric acid (7664-39-3)

LC50 inhalation rat	0.79 mg/l (Exposure time: 1 h)
ATE US (oral)	5 mg/kg body weight
ATE US (dermal)	5 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.79 mg/l/4h
ATE US (dust, mist)	0.79 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Hydrofluoric acid (7664-39-3)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects : Absorption of excessive F- can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys).

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Symptoms/effects after inhalation	: Harmful if inhaled. May cause burns to the respiratory tract.
Symptoms/effects after skin contact	: Fatal in contact with skin. Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Hydrofluoric acid (7664-39-3)	
LC50 - Fish [1]	51 mg/l Test organisms (species): other:summary of finidngs in various species
EC50 - Crustacea [1]	270 mg/l (Exposure time: 48 h - Species: Daphnia species)
LC50 - Fish [2]	165 mg/l Test organisms (species): other:summary of finidngs in various species
NOEC (chronic)	14.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '21 d'

12.2. Persistence and degradability

AFL Electrical Joint Compound No. 2	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

AFL Electrical Joint Compound No. 2	
Bioaccumulative potential	Not established.

Hydrofluoric acid (7664-39-3)	
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water	-1.4

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Hazardous waste due to toxicity.

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SECTION 14: Transport information

In accordance with DOT

14.1. UN number

DOT NA No : UN1790

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Hydrofluoric acid (solution, with not more than 60 percent strength)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8 (6.1)

Hazard labels (DOT) : 8, 6.1



14.4. Packing group

Packing group (DOT) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Full text of H-phrases	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapor) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1

Safety Data Sheet (SDS), USA

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