SAFETY DATA SHEET

AFL- FCC2 - ENHANCED FORMULA

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200.

1. Identification	
Product identifier	
Product name	AFL- FCC2 - ENHANCED FORMULA
Product number	FCC2-00-0902, FCC2-10-0902, FCC2-10-0903
Synonyms; trade names	FCC2-10-0903, Case of 12 cans
Recommended use of the che	emical and restrictions on use
Application	Cleaning agent.
Details of the supplier of the s	afety data sheet
Supplier	AFL 16 Eastgate Park Belmont, NH 03220 United States of America CAGE: 0NL21 Tel: +1 603-528-7780 www.AFLglobal.com
Manufacturer	MICROCARE LLC 595 John Downey Drive New Britain, CT 06051 United States of America CAGE: OATV9 Tel: + 1 800 638 0125, +1 860-827-0626 techsupport@microcare.com
Emergency telephone numbe	<u>r</u>
Emergency telephone	INFOTRAC 1-800-535-5053 (U.S.A. and CANADA) 1-352-323-3500 (from anywhere in the world)
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Human health	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Environmental	The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Physicochemical	Vapors are heavier than air and may travel along the floor and accumulate in the bottom of containers. Gas or vapor displaces oxygen available for breathing (asphyxiant). Not considered to be a significant hazard due to the small quantities used.
Label elements	
Hazard statements	NC Not Classified

Supplemental label	EUH210 Safety data sheet available on request. RCH001a For use in industrial installations
information	only.

Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3. Composition/information on ingredients

Mixtures Methyl Nonafluoroisobutyl Ether 30-60% CAS number: 163702-08-7 Classification Not Classified 30-60% CAS number: 163702-07-6 30-60% Classification Not Classified

PROPAN-2-OL	5-10%
CAS number: 67-63-0	
Classification	
Flam. Liq. 2 - H225 Eye Irrit. 2A - H319	
STOT SE 3 - H336	

The full text for all hazard statements is displayed in Section 16.

Composition comments	TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are on the TSCA Inventory.
Ingredient notes	This product does not contain any substances classified as PBT or vPvB.
Composition	
4. First-aid measures	
Description of first aid measure	sures
General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Never give anything by mouth to an unconscious person.

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person
Incestion	by administering oxygen. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Consult a physician for specific advice.

Skin Contact	Due to the small packaging, the risk of skin contact is minimal. Remove contaminated clothing and rinse skin thoroughly with water.	
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.	
Most important symptoms and	effects, both acute and delayed	
General information	For further information, please refer to section 11.	
Inhalation	Vapors in high concentrations are anesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.	
Ingestion	Due to the physical nature of this material it is unlikely that swallowing will occur. May cause nausea, headache, dizziness and intoxication. Congestion of the lungs may occur, producing severe shortness of breath.	
Skin contact	Prolonged skin contact may cause redness and irritation. Mild dermatitis, allergic skin rash.	
Eye contact	May cause temporary eye irritation.	
Indication of immediate medical attention and special treatment needed		
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.	
5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	The product is not flammable.	
Special hazards arising from the substance or mixture		
Flammability Class	The product is not flammable.	
Specific hazards	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Containers can burst violently when heated, due to excess pressure build-up.	
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
Advice for firefighters		
Protective actions during firefighting	Closed containers can burst violently when heated, due to excess pressure build-up. Containers close to fire should be removed or cooled with water. Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures		
Personal precautions	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.	
Environmental precautions		
Environmental precautions	Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.	

wethous and material for conta	ainment and cleaning up
Methods for cleaning up	Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground.
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards.
7. Handling and storage	
Precautions for safe handling	
Usage precautions	Provide adequate ventilation. Avoid contact with skin and eyes.
Conditions for safe storage, inc	cluding any incompatibilities
Storage precautions	Do not store near heat sources or expose to high temperatures. Keep containers upright.
Storage class	The product is not flammable.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1. For use in industrial installations only.
Usage description	Cleaning agent.
Reference to other sections.	Store away from incompatible materials (see Section 10).
8. Exposure controls/Personal	I protection
Control parameters	
Occupational exposure limits	
Methyl Nonafluoroisobutyl Ethe	er
Long-term exposure limit (8-ho	bur TWA): 750 ppm
Methyl Nonafluorobutyl Ether	
Long-term exposure limit (8-ho	bur TWA): 750 ppm
PROPAN-2-OL	
	bur TWA): OSHA 400 ppm 980 mg/m ³
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m ³	
Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m ³ A4	
OSHA = Occupational Safety and Health Administration. ACGIH = American Conference of Governmental Industrial Hygienists. A4 = Not Classifiable as a Human Carcinogen.	
Ingredient comments	WEL = Workplace Exposure Limits Threshold Limit Values (2005), ACGIH, by the American Conference on Governmental Industrial Hygienists. ACGIH = US Standard. SUP = Supplier's recommendation. EU = Indicative Values according to Commission Directive 91/322/EEC.
Exposure controls	
Protective equipment	

Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Hand protection not required. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Neoprene.
Hygiene measures	When using do not eat, drink or smoke. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
Environmental exposure controls	Not regarded as dangerous for the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear liquid.
Color	Colorless.
Odor	Slight alcoholic.
Odor threshold	No information available.
рН	No information available.
Melting point	No information available.
Initial boiling point and range	54°C/129°F @ 101.3 kPa
Flash point	The product is not flammable. Does not flash, Tag closed cup (ASTM D 56)
Evaporation rate	58 (BUOAC = 1)
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 16.7 $\%(V)$ Lower flammable/explosive limit: 4 $\%(V)$
Other flammability	No information available.
Vapor pressure	27.6 kPa @ 25°C
Vapor density	7.0
Relative density	1.48 (H20 = 1) @ 25°C
Bulk density	No information available.
Solubility(ies)	Slightly soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	443°C ASTM E659
Decomposition Temperature	No information available.
Viscosity	<=0.01 Pa s @ 23°C
Explosive properties	No information available.

Refractive index	No information available.	
Particle size	Not applicable.	
Molecular weight	No information available.	
Volatility	100%	
Saturation concentration	No information available.	
Critical temperature	No information available.	
Volatile organic compound	No information available.	
10. Stability and reactivity		
Reactivity	Strong alkalis. Chemically-active metals.	
Stability	Stable at normal ambient temperatures and when used as recommended.	
Possibility of hazardous reactions	Will not polymerize.	
Conditions to avoid	Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors.	
Materials to avoid	Alkali metals. Alkaline earth metals. Powdered metal. Strong acids.	
Hazardous decomposition products	Heating may generate the following products: Toxic and corrosive gases or vapors. Hydrogen fluoride (HF). Hydrogen chloride (HCl). Halogenated hydrocarbons. Carbon dioxide (CO2).	
11. Toxicological information		
Information on toxicological effects		
Other health effects	There is no evidence that the product can cause cancer.	
Inhalation	Vapors may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.	
Ingestion	May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.	
Skin Contact	Repeated exposure may cause skin dryness or cracking. Product has a defatting effect on skin. May cause allergic contact eczema.	
Eye contact	May cause temporary eye irritation.	
Toxicological information on ingredients.		
Methyl Nonafluoroisobutyl Ether		
Acute toxicity - oral		

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
Acute toxicity - inhalation	

	Acute toxicity inhalation (LC∞ vapours mg/l)	1,000.0
	Species	Rat
	ATE inhalation (vapours mg/l)	1,000.0
		Methyl Nonafluorobutyl Ether
	Other health effects	There is no evidence that the product can cause cancer.
	Acute toxicity - oral	
	Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
	Species	Rat
	ATE oral (mg/kg)	5,000.0
	Acute toxicity - inhalation	
	Acute toxicity inhalation (LC₅₀ vapours mg/l)	1,000.0
	Species	Rat
	ATE inhalation (vapours mg/l)	1,000.0
		PROPAN-2-OL
	Acute toxicity - inhalation	
Acute toxicity inhalation 16,000.0 (LC∞ vapours mg/l)		16,000.0
	ATE inhalation (vapours mg/l)	16,000.0
	Carcinogenicity	
	IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
	NTP carcinogenicity	Not listed.
	OSHA Carcinogenicity	Not listed.
12. Ecologia	cal information	
Ecotoxicity	city There are no data on the ecotoxicity of this product.	
Ecological information on ingredients.		
		Methyl Nonafluoroisobutyl Ether
	Ecotoxicity	The product is not expected to be toxic to aquatic organisms.
		Methyl Nonafluorobutyl Ether
	Ecotoxicity	There are no data on the ecotoxicity of this product.
Toxicity	Not considered toxic to fish.	

Revision date: 6/15/2022

AFL- FCC2 - ENHANCED FORMULA

Ecological information on ingredients.

	normation on ingre			
			Methyl Nonafluoroisobutyl Ether	
	Toxicity		Not considered toxic to fish.	
			Methyl Nonafluorobutyl Ether	
	Toxicity		Not considered toxic to fish.	
			PROPAN-2-OL	
	Acute aquatic tox	licity		
	Acute toxicity - fis	sh	LC₅₀, 96 hours: 9,640 mg/l, Fish	
	Acute toxicity - ac invertebrates	quatic	EC₅₀, 48 hours: 5102 mg/l, Daphnia magna	
	Acute toxicity - ac plants	quatic	IC₅₀, 72 hours: >2,000 mg/l, Algae	
Persistence	and degradability			
Persistence and degradability No data available.				
Ecological in	nformation on ingre	edients.		
			Methyl Nonafluoroisobutyl Ether	
	Persistence and degradability		The product is not expected to be biodegradable.	
			Methyl Nonafluorobutyl Ether	
	Persistence and degradability		No data available.	
Bioaccumula	ative potential			
Bio-Accumu	lative Potential	No data	available on bioaccumulation.	
Partition coe	fficient	No inform	nation available.	
Ecological in	nformation on ingre	edients.		
			Methyl Nonafluoroisobutyl Ether	
	Bio-Accumulative	Potential	No data available on bioaccumulation.	
			Methyl Nonafluorobutyl Ether	
	Bio-Accumulative	Potential	No data available on bioaccumulation.	
			PROPAN-2-OL	
	Partition coefficie	nt	: 0.05	
Mobility in so	pil			
Mobility	_	The proc	duct contains volatile substances which may spread in the at	

The product contains volatile substances which may spread in the atmosphere. Not considered to be a significant hazard due to the small quantities used.

Ecological information on ingredients.

Methyl Nonafluoroisobutyl Ether				
Mobility	Not applicable.			
	Methyl Nonafluorobutyl Ether			
Mobility	Not applicable.			
Other adverse effects				
Other adverse effects	The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.			
13. Disposal considerations				
Waste treatment methods				
General information	When handling waste, the safety precautions applying to handling of the product should be considered.			
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.			
14. Transport information				
General	FCC2-10-0902 and FCC2-10-0903 can be shipped as Consumer ORM-D.			
UN proper shipping name				
Proper shipping name (International)	Not applicable., Non-hazardous substance.			
Transport hazard class(es) Transport Labels (International)	Not applicable., Non-hazardous substance.			
Transport labels				
No transport warning sign requ	ired. Not regulated.			
Packing group				
Packing group (International)	Not applicable., Non-hazardous substance.			
Environmental hazards				
Environmentally Hazardous Substance No.				
Special precautions for user				
No information required.				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information required. Not relevant.			
15. Regulatory information				
US Federal Regulations				

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA) Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities Not listed.

SARA 313 Emission Reporting Not listed.

CAA Accidental Release Prevention Not listed.

SARA (311/312) Hazard Categories None

OSHA Highly Hazardous Chemicals Not listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins Not listed.

California Air Toxics "Hot Spots" (A-I)

PROPAN-2-OL Present.

California Air Toxics "Hot Spots" (A-II) Not listed.

California Directors List of Hazardous Substances

PROPAN-2-OL Present.

Massachusetts "Right To Know" List

PROPAN-2-OL Present.

Rhode Island "Right To Know" List

PROPAN-2-OL Present.

Minnesota "Right To Know" List

PROPAN-2-OL Present.

New Jersey "Right To Know" List

PROPAN-2-OL Present.

Pennsylvania "Right To Know" List

PROPAN-2-OL Present.

Inventories Canada - DSL/NDSL DSL **US - TSCA** Yes US - TSCA 12(b) Export Notification The following ingredients are listed: Methyl Nonafluoroisobutyl Ether Present. Methyl Nonafluorobutyl Ether Present. 16. Other information Abbreviations and acronyms TDG: The transport of dangerous goods act used in the safety data sheet IATA: International air transport association. ICAO: Technical instructions for the safe transport of dangerous goods by air. IMDG: International maritime dangerous goods. CAS: Chemical abstracts service. ATE: Acute toxicity estimate. LC₅₀: Lethal concentration to 50 % of a test population.

- LD₅₀: Lethal dose to 50% of a test population (median lethal dose).
- EC₅₀: 50% of maximal effective concentration.
- PBT: Persistent, bioaccumulative and toxic substance.
- vPvB: Very persistent and very bioaccumulative.
- Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision	date	6/15/2022

Revision	30
Supersedes date	5/17/2021

SDS No.	BULK - FCC2-00-0902
SDS status	Approved.

Hazard statements in fullH225 Highly flammable liquid and vapor.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.