



MIR^oIL

MATERIAL SAFETY DATA SHEET

MirOil FryLiquid Oil Performance Enhancer



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SAFETY DATA SHEET: FRYLIQUID**SECTION 1. IDENTIFICATION OF THE PRODUCT AND COMPANY:**

PRODUCT NAME	FRYLIQUID
PRODUCT USE	PROCESSING AID, FRYING OIL STABILIZER
MANUFACTURER'S NAME	OIL PROCESS SYSTEMS INC.
STREET ADDRESS	602 NORTH TACOMA STREET,
CITY	ALLENTOWN, PA 18109, USA
TEL. EMERGENCY: 610 437 4618, GENERAL INFO: 1 800 523-9844	Effective November 2015

SECTION 2. HAZARDS IDENTIFICATION

Route of entry: Skin contact X	Skin absorption X	Eye contact X	Inhalation	Ingestion X
<p>Citric acid Citric acid is a natural compound easily metabolized by humans and most living organisms. Generally Recognized as Safe (GRAS) substance by US FDA, can be irritant to eyes.</p> <p>Ascorbic acid Classified by the US FDA as GRAS for use in foods not regarded as health hazard under current legislation can be irritant to eyes.</p> <p>Herbal extracts Turmeric and Rosemary Classified by the US FDA as GRAS for use in foods not regarded as health hazard under current legislation.</p> <p>Citric acid ester Classified by the US FDA as GRAS for use in foods not regarded as health hazard under current legislation.</p> <p>Lecithin (replacement derived from rice: Nu-rice) Classified by the US FDA as GRAS for use in foods not regarded as health hazard under current legislation.</p>				
WHMIS symbols: not regulated				
<p>Potential health effects: Skin: citric acid might be absorbed by the skin. Product can cause slight, temporary irritation of the skin. Eye: citric acid is irritating to eyes. Product can cause irritation if gets in eye. Ingestion: Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.</p>				

SECTION 3. COMPOSITION/INFORMATION OF INGREDIENTS

Hazardous Ingredients	CAS Number	LD ₅₀ of Ingredient	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	EEC (FINCS) No.
Aqueous solution of Citric acid	77-92-9	Rat 885 mg/kg (intravenous)			201-069-1
Ascorbic acid	50-81-7	11900 mg/kg (oral rat)			
Herbal extracts Turmeric and Rosemary	N/A				
Citric acid ester	77-93-0	4000 mg/kg (oral cat)			
Lecithin Replacement	N/A				

SECTION 4. FIRST AID MEASURES

General	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
Ingestion	DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure to that vomit can freely drain because the danger of suffocation. Only when conscious rinse mouth out. Obtain medical attention if adverse symptoms occur.
Skin	Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention. Launder clothing before reuse.
Eyes	DO NOT RUB EYES. Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media	Noncombustible and nonflammable, but citric acid will burn or decompose in fire situation. Use extinguishing media suitable against surrounding fire or the cause of fire.
Special Fire Fighting Procedures	N/A. Dispose of contaminated water and soil according to local regulations.
Hazardous Combustion Products	As with other organic products burning will produce oxides of carbon.
Protective Measures in Fire	Fire fighters should wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions In Spill	Protect eyes with goggles, avoid contact with eyes.
Precautions To Protect Environment	Prevent contamination of soil, drains and surface water. Dispose spilled material according to the federal, state and local regulations.
Spill Cleanup Methods	Material not considered hazardous waste by RCRA (40CFR 261) dispose in approved landfill. Wash the area clean with water and detergent observing environmental requirements.

SECTION 7. HANDLING AND STORAGE

Usage Precautions	HANDLING; Product should be used in accordance with manufacturer instructions. Ensure good ventilation in work place. Avoid contact with eyes or skin.
Storage Precautions	Product can be stored in ambient temperature in dry, well ventilated place, in securely closed original containers. Make sure containers are not damaged.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingredient Comments	No specific OES assigned.
Ventilation	Provide adequate general and local exhaust ventilation.
Protective Gloves	When needed, use protective gloves made of: Butyl rubber, rubber (natural latex) neoprene, polyvinyl chloride (PVC).
Eye Protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.
Other Protection	Wear personal protective equipment suitable to the task.
Hygienic Work Practices	Skin protections: apply barrier cream to hands and exposed skin as needed.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid light yellow
Aroma/ Taste	Slight spicy aroma or no aroma
Density/specific gravity	Density close to density of water = 1g/ml
pH Value	pH = or <2.0
Solubility Description	Product soluble in water, dispersible in oils.
Auto Ignition Temp	Noncombustible and nonflammable.

SECTION 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use as instructed by the manufacturer.
Materials To Avoid	Avoid strong oxidizing agents, and prolonged exposure to light.
Hazardous Decomposition Products	As with all organic compounds burning will release carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Toxic dose LD 50	For citric acid; LD ₅₀ Rat 885mg/kg (intravenous), Rat 11700 mg/kg (oral). Ascorbic acid LD ₅₀ 11900mg/kg (oral rat). Citric acid ester LD ₅₀ 4000mg/kg (oral cat).
Health hazards, general	Citric acid and ascorbic acid can cause temporary irritation to eyes, skin and mucous membranes.
Effects of chronic exposure	Chronic ingestion of large doses may cause gastro-intestinal disturbances including diarrhea and nausea all components are non mutagenic.
Health warnings	This product may cause temporary skin/eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

LD 50, 96 hours, fish mg/ml	Citric acid; LD ₅₀ for fish 440-706mg/l.
Degradability	Citric acid biodegradable – 98% within 2 to 24 hours. Ascorbic acid readily biodegradable. Triethyl citrate readily biodegradable, half- life 9.4 days at 30°C. All other components readily biodegradable and not bioaccumulative.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods	This material is not considered hazardous waste by the RCRA (40 CFR part 261). Place waste and spillage in closed containers. USEPA Waste number: non-Hazardous. Dispose in accordance with Federal, state and local regulations
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SECTION 14. TRANSPORT INFORMATION

Special shipping information	No known shipping regulations.
US D.O.T.	Not Regulated
Reportable quantities	N/A
TDG/IMO/ICAO	Not regulated
UN (/United Nations) , NA (North American) number	Not applicable



SECTION 15. REGULATORY INFORMATION

WHMIS	Non-Hazardous
SARA	Not listed
TSCA	Triethyl citrate listed EINECS # 201-070-7 other components Not listed

SECTION 16. OTHER INFORMATION

- ACGIH = American conference on governmental Industrial Hygienists
- CAS = Chemical Abstract Service
- CFR = Code of Federal Regulations
- LD = Lethal Dose
- NFPA = National Fire Protection Association
- NIOSH = National Institute of Occupational Safety and Health
- DSL/NDSL = Domestic Substances List/Non-Domestic Substance List
- EC = European Community
- EINECS = European Inventory of Existing Commercial Chemical Substances
- ELINCS = European List of Notified Chemical Substances
- EU = European Union
- GHS = Globally Harmonized System
- LC = Lethal Concentration
- NTP = National Toxicology Program
- OSHA = Occupational Safety and Health Administration
- PEL = Permissible Exposure limit
- RQ = Reportable Quantity
- SARA = Superfund Amendments and Reauthorization Act of 1986
- TLV = Threshold Limit Value
- WHMIS = Workplace Hazardous Materials Information System

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