# **Safe Foods Chemical Innovations**

# Safety Data Sheet

## PRODUCT IDENTIFICATION

# **PROMOAT FVTM**

Product Name Manufactured and Distributed By:

Safe Foods Chemical Innovations 1501 E. 8<sup>th</sup> Street North Little Rock, AR 72114 (501) 758-8500 none Antimicrobial Agent

Synonyms Material Use

# IHAZARD SUMMARYGHS Classoxidizeracute oralacute skinacute inhal.(Category)(2)(3)(3)(4)

(Category)	(2)	(3)	(3)	(4)	(1)	(1)
Signal Words	DANGER	DANGER	DANGER	WARNING	DANGER	WARNING
Hazard Statements	may intensify fire, oxidizer (H272)	toxic if swallowed (H301)	toxic in contact with skin (H311)	harmful if inhaled (H332)	causes severe skin burns & eye damage (H314)	very toxic to aquatic life (H400)

skin corrosive

(1)

aquatic, acute

(1)

#### **GHS Precautionary Statements for Labelling**

	Statements for Eusemin	
P262	Do not get in eyes, on skin or on clothing.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P280	Wear eye protection, protective gloves and clothing of	
	butyl or "Viton".	
P273, P391	Avoid release to the environment. Collect spillage.	
P313 & P333	If skin irritation or rash occurs, get medical advice/atter	ntion.
P304 & P340	If inhaled remove person to fresh air and keep comforta	able for breathing.
P305, P351, P338	If in eyes, rinse continuously with water for several min	utes. Remove contact lenses if present and easy to do.
	Continué rinsing.	L V

## III COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (w/w)
Hydrogen Peroxide	7722-84-1	5-10
Acetic Acid	64-19-7	40-55
Peracetic Acid	79-21-0	15-20
1-Hydroxyethane-1,1-diphosphonic acid	2809-21-4	< 0.8
Water	7732-18-5	balance

# IV FIRST AID

SKIN:Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.EYES:Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.INHALATION:Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If victim's breathing stops, administer artificial respiration and seek medical aid promptly

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# PLEASE ENSURE THAT THIS SDS IS GIVEN TO AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

INGESTION: Give plenty of water to dilute product. Do not induce vomiting (*NOTE below*). Keep victim quiet. If vomiting occurs, lower victim's head below the hips to prevent inhalation of vomited material. Seek medical help promptly.

**NOTE:** Corrosive substance: apply first aid immediately! Inadvertent inhalation of vomited material may seriously damage the lungs. This danger is greater than the risk of poisoning through absorption of this product. Only empty the stomach under medical supervision, after installing an airway to protect the lungs.

# FLAMMABILITY & FIREFIGHTING

Flash Point	>82°C/180°F
Autoignition Temperature	not known
Flammable Limits	not known
Combustion Products	carbon monoxide, nitrogen oxides, oxides of sulfur, oxides of phosphorous
Firefighting Precautions	as for materials sustaining fire; firefighters must wear SCBA
Static Discharge	cannot accumulate a static charge
Suitable Extinguishing Media	water spray, fog, carbon dioxide, foam
Unsuitable Extinguishing	
Media	Do not use heavy water stream. Use of heavy stream of water may spread fire

# ACCIDENTAL RELEASE MEASURES

 Leak Precaution
 dyke to control spillage and prevent environmental contamination

 Handling Spill
 ventilate contaminated area; recover free liquid with corrosion-resistant pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for disposal

 NOTE: If spill is extensive, and ventilation is inadequate, consider wearing an air supplied respirator

**NOTE:** If spill is extensive, and ventilation is inadequate, consider wearing an air-supplied respirator.

# VII STORAGE & HANDLING

Store and use in a cool environment, away from alkalis. Never cut, drill, weld or grind on or near this container, whether empty or full. <u>Always replace drum, pail or IBC cap prior to moving the container!</u>

Avoid generating or breathing product vapor or mist. If vapor or mist form in use install adequate ventilation to control airborne titre to regulated limits (*Part VIII, below*). If dealing with a spill, and ventilation is impractical, wear a suitable respirator with an acid gas cartridge. *WARNING – corrosive material;* avoid all contact with skin & wash work clothes often. An eye bath & safety shower must be available near the workplace.

# VIII EXPOSURE CONTROL & PERSONAL PROTECTION

	Acetic Acid (64- 19-7)	Hydrogen Peroxide (7722- 84-1)	Peracetic Acid (79- 21-0)
USA ACGIH TLV	TWA: 10 ppm	TWA: 1ppm	STEL: 0.4 ppm
	STEL: 15 ppm		
USA OSHA PEL	TWA: 25 mg/m <sup>3</sup>	TWA: 1.4 mg/m <sup>3</sup>	
	TWA: 10 ppm	TWA: 1 ppm	
USA NIOSH REL	TWA: 25 mg/m <sup>3</sup>	TWA: 1.4 mg/m <sup>3</sup>	
	TWA: 10 ppm	TWA: 1 ppm	
	STEL: 37 mg/m <sup>3</sup>		
	STEL: 15 ppm		
USA NIOSH IDLH	IDLH: 50 ppm	75 ppm	

Ventilation mechanical ventilation is required to control airborne concentrations to regulated limits; a respirator with acid gas cartridge should be available for escape purposes, in case of a spill or should ventilation fail (*always store respirator in airtight container ["Tupperware"] to maintain cartridge freshness*)

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EMERGENCY INFORMATION

Call CHEMTREC

(800) 424-9300

# PLEASE ENSURE THAT THIS SDS IS GIVEN TO AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

 Hands
 nitrile or neoprene, gauntlet-style gloves – always confirm suitability with supplier

 Eyes
 safety glasses with side shields or chemical goggles & a face shield – always protect eyes!

 Clothing
 impermeable (hands, above) apron, boots, hat & long sleeves; if splashing is possible consider wearing a one-piece impermeable overall with hood & a face shield

# PHYSICAL CHARACTERISTICS

Odor & Appearance Odor Threshold	clear, colorless, mobile liquid with a strong acetic acid (vinegar) odor 0.05ppm
Vapor Pressure	approx. 20mmHg / 2.7kPa (20°C/ 68°F)
Evaporation Rate ( <i>Butyl Acetate = 1</i> )	not known – <i>slightly slower than water</i>
Vapor Density (air $= 1$ )	mixture – all components, except water, are heavier than air
Boiling Point	above 100°C / 212°F
Freezing Point	below $-20^{\circ}C / -4^{\circ}F$
Specific Gravity	1.110 to 1.140 (20/20°C)
Water Solubility	complete
Viscosity	not known – <i>thin mobile liquid</i>
pH	below (<) 1 – <i>strongly acidic</i>

# REACTIVITY

Dangerously Reactive With Also Reactive With Stability Decomposes in Presence of Decomposition Products Sensitive to Mechanical Impact reducing agents, metal salts, alkalis, *may ignite flammable substances & organic solvents* corrodes ferrous and non-ferrous metals, zinc, aluminum stable if not contaminated; will not polymerize heat, sunlight acetic acid, steam, oxygen no

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# i.EFFECTS OF ACUTE EXPOSURE

LETT DOID OF MOOTE DA	LETTERS OF MCCTE EM OSCIL		
Skin Contact	corrosive to skin; will cause damage if not rinsed away promptly		
Skin Absorption	slight; no toxic effects likely by this route		
Eye Contact	liquid and vapor corrosive to eyes; will cause permanent damage if not rinsed promptly		
Inhalation	severely irritating; may cause pulmonary edema which may become life-threatening		
Ingestion	corrosive to mouth, throat & stomach; damage to digestive tract may be severe & life-threatening		
	Ingestion is not a route of industrial exposure.		
Calculated LD <sub>50</sub> (oral)	39mg/kg (rat)		
Calculated LD50 (skin)	818mg/kg (rabbit)		
Calc. LC <sub>50</sub> (inhalation)	470ppm (rat)		

# ii. EFFECTS OF CHRONIC EXPOSURE

General	prolonged or repeated exposure may cause skin cracking and dermatitis repeated absorption may damage liver and kidneys
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

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# **ENVIRONMENTAL INFORMATION**

Bioaccumulation	this product is not a bioaccumulator
Biodegradation	once diluted to below bacteriostatic concentration, all components biodegrade readily & rapidly
Abiotic Degradation	hydrolyses rapidly at pH 7-9; its estimated ½-life in water 1 day; at pH 4, 7 days
Mobility in soil, water	water soluble; moves rapidly in soil & water; rapid hydrolysis & biodegradation is likely to prevent
	soil & water contamination
Aquatic Toxicity	Acetic Acid:
LC <sub>50</sub> (Fish, 96 hr)	75mg/liter (Lepomis macrochirus), 251mg/liter (Gambusia affinis, neutralized to pH6.9-8.7)
	88mg/litre (Pimephelas promelas), 410mg/liter (Leuciscus idus)
LC <sub>50</sub> (Crustacea, 48hr)	6000mg/liter (Daphnia magna), 42mg/litre (Artemia salina)
EC <sub>100</sub> (Algae, 96hr)	720mg/liter (Euglena gracilis), 63mg/litre (Chlamydomonas dysomos)
LC <sub>50</sub> (Bacteria)	11mg/liter (Photobacterium phosphoreum)
Aquatic Toxicity	Hydrogen Peroxide:
LC <sub>50</sub> (Fish, 96 hr)	16mg/liter (Pimephelas promelas), 37mg/litre (Ictalurus punctatus)
$LC_{50}$ (Fish, 96 hr) $LC_{50}$ (Crustacea 48hr)	16mg/liter (Pimephelas promelas), 37mg/litre (Ictalurus punctatus) 7.7mg/liter (Daphnia magna)
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#### XIII **DISPOSAL / CONTAINERS**

#### Waste Disposal do not flush to sewer; may be incinerated in approved facility with flue gas monitoring & scrubbing, mix with a suitable flammable waste before incineration; may be landfilled if local regulations permit Containers Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. Pails must be vented and thoroughly dried prior to crushing and recycling. **IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested and recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested and recertified every 5 years. Warning: never cut, drill, weld or grind on or near this container, even if empty.

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# TRANSPORTATION CLASSIFICATION

#### USA 49 CFR & Canada TDG + 14

Product Identification Number	UN – 3109	
Shipping Name organic p	oxide type F, liquid (peroxyacetic acid,	
hydrogen peroxide)		
Classification	Class 5.2 (8)	
Reportable Quantities:	acetic acid – 5000lbs	

ORGANIC PEROXIDE CORROSIVE

# **Marine Pollution**

EMERGENCY INFORMATION		
In the U.S.A.	Call CHEMTREC	(800) 424-9300
In Canada	Call CANUTEC (collect)	(613) 996-6666

not a marine pollutant

# PLEASE ENSURE THAT THIS SDS IS GIVEN TO AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

# XV REGULATIONS

Canada DSL	on inventory
U.S.A. TSCA	on inventory
Europe EINECS	on inventory

# XVI OTHER INFORMATION

NFPA ratings (scale 0 – 4) Health = 3 Fire = 1 Instability = 1 Special Hazard = Oxidizer, Corrosive HMIS ratings (scale 0 – 4) Health = 3 Fire = 1 Reactivity = 1 Personal Protection = X (Consult your supervisor or SOP for special handling instructions)

Date of PreparationAugust 2016Date of RevisionOctober 2023Prepared for Safe Foods Chemical Innovations

**<u>Resources</u>**: <u>CHEMINFO</u> (Canadian Centre for Occupational Health & Safety), <u>Hazardous Substances Data Bank</u> (US National Library of Science), <u>IUCLID Datasheet</u> (European Union), <u>ESIS European Chemical Substances Information System</u> (European Union), <u>OSHA Database</u> (US Dept. of Labor)