

EnvirOx Fresh Concentrate 118

SDS Pictogram Memo - See Below for Full SDS

May 2015



EnvirOx prides itself as an industry leader in providing A Healthier Way to Clean™ to our customers. We also pride ourselves on providing transparent information on our products. During the development of our GHS compliant Safety Data Sheets, it came to our attention that Fresh Concentrate 118 would carry a Reproductive Toxin pictogram due to recent chemical studies in the European Union. We believe it is our responsibility to communicate to our customers the meaning of this pictogram, data on the ingredient causing this pictogram, and the steps we are taking to eliminate the ingredient from Fresh Concentrate 118.

- EnvirOx Fresh Concentrate 118 is an **EPA registered** product.
- EPA registered products are **exempt from GHS labeling** requirements.
- As such, EnvirOx Fresh Concentrate 118 **meets all regulatory requirements** under EPA and GHS.

EnvirOx Fresh Concentrate 118 includes an ingredient called tetrahydro-2-furylmethanol (THFA) as a solvent replacement for cold pressed orange oil. When EnvirOx formulated Concentrate 118 using this ingredient, there was no data available as to reproductive hazards. New studies indicate that THFA is now classified as a suspected reproductive toxin. In the study, laboratory tests found that after 47 days of **consuming 50mg/kg/day**, lab rats exhibited signs of reproductive toxicity.*

To put this into perspective, a **175 pound human would need to consume about 1 gallon of pure THFA per day for 47 days to replicate the test performed on lab rats**. A gallon of concentrated Fresh Concentrate 118 contains approximately **3oz** of THF. In the heaviest in-use dilution, Fresh Concentrate 118 contains **less than 1/3 of a teaspoon** of THFA.

THFA® tetrahydro-2-furylmethanol is an EPA-approved environmentally friendly, naturally derived, biodegradable, water-miscible specialty solvent.

- There is **NO regulatory requirement** for any change to be made.
- Customers **may continue using** Fresh Concentrate 118.
- EnvirOx is **voluntarily** electing to seek an ingredient change for Fresh Concentrate 118.
- EnvirOx H2Orange2 Concentrate 117 **does not** contain the ingredient tetrahydro-2-furylmethanol.

*<http://www.ncbi.nlm.nih.gov/pubmed/18191536>



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: EnvirOx Fresh Concentrate 118

Other means of identification

Product code: 118

Product registration number: 69268-2

Recommended use: Oxidizing Multipurpose Cleaner, Degreaser and Sanitizer (Non-Food Contact Surfaces), Virucide and Deodorizer for Hard, Non-Porous Surfaces

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier EnvirOx LLC

Address P.O. Box 2327
1938 E. Fairchild St.
Danville, IL 61834-2327 USA

Telephone 1-217-442-8596

Emergency Phone Number: ChemTel Inc. 800-255-3924, +1-813-248-0585

SECTION 2 –HAZARD(S) IDENTIFICATION

Physical hazards: Not classified.

Health hazards:

Serious eye damage/eye irritation

Category 2A

Reproductive toxicity

Category 1B

OSHA defined hazards: Not classified.

Label elements



Signal Word – Danger

Hazard statement: Causes serious eye irritation. May damage fertility or the unborn child.

Precautionary statements:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None known.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS Number	%
Hydrogen peroxide	7722-84-1	3.75-4.15
Tetrahydrofurfuryl alcohol	97-99-4	1.69-1.87

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4 - FIRST-AID MEASURES

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then, give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then, continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by a poison control center or doctor. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms/effects, acute and delayed: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed: Probable mucosal damage may contraindicate the use of gastric lavage.

General information: IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Clean up immediately. Place leaking container in a well ventilated area. To clean up spill, flush area with large quantity of water. Avoid run-off into storm sewers and ditches leading to natural waterways.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Do not contaminate water, food, and or feed by storage. Avoid freezing conditions. Avoid high temperatures. Do not exceed storage temperatures of 95°F. Best storage temperatures are between 35°F and 85°F. Overheating in storage may result in increased degradation of product, which will decrease product effectiveness. Keep concentrate away from incompatible materials.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m ³ 1 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3 1 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Tetrahydrofurfuryl alcohol (CAS 97-99-4)	TWA	2 mg/m3 .5 ppm

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: No further information available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses.

Skin protection

Hand protection: Rubber gloves, Butyl rubber, Nitrile rubber, or Neoprene gloves.

Other: Protective work clothing.

Respiratory protection: Not required under normal conditions of handling. Use suitable respiratory protective device when aerosol or mist is formed.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical State: Liquid Form: Liquid Color: Clear	Flammability limit – upper (%)	Not available.
Odor:	Citrus	Explosive limit - lower (%)	Not available.
Odor threshold:	Not determined	Explosive limit - upper (%)	Not available.
pH	4.4 (20°C)	Vapor pressure:	Not available.
Melting point/freezing point:	Undetermined	Vapor density:	Not available.
Initial boiling point and boiling range	212 °F / 100 °C	Relative Density:	Not available.
Flash point:	Not applicable	Solubility:	Fully miscible
Evaporation rate:	Not available.	Partition coefficient (noctanol/water):	Not available.
Flammability (solid, gas):	Not applicable	Auto-ignition temperature:	Not available.
Flammability limit – lower (%)	Not available.	Decomposition temperature:	Not available.
		Viscosity:	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Prolonged inhalation may be harmful.

Skin contact: No adverse effects due to skin contact are expected.

Eye Contact: Causes serious eye irritation.

Ingestion: Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Hydrogen peroxide (CAS 7722-84-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	376 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen peroxide (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Hydrogen peroxide (CAS 7722-84-1)			
Aquatic			
Crustacea	LC50	Daphnia	24 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	26.7 mg/l, 96 Hours
		Chameleon goby (Tridentiger trigonocephalus)	155 mg/l, 24 Hours
		Jack Mackerel (Trachurus japonicus)	89 mg/l, 24 Hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	22 mg/l, 96 Hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions PESTICIDE DISPOSAL: Do not contaminate food or feed by storage, disposal or cleaning of equipment. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging CONTAINER DISPOSAL: Completely empty container. Do not reuse empty containers. If in plastic bag with original box discard in trash, sanitary landfill or by incineration, if allowed by State and Local Authorities, by burning. If burned stay out of smoke or if in plastic bottles, triple rinse or equivalent and recycle.

SECTION 14 - TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Established

SECTION 15 - REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Immediate Hazard	– Yes
Delayed Hazard	– Yes
Fire Hazard	– No
Pressure Hazard	– No
Reactivity Hazard	– No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydrogen peroxide	7722-84-1	1000	1000		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

Signal word CAUTION

Hazard statement

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMAN AND DOMESTIC ANIMALS

Causes moderate eye damage. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

After product is diluted in accordance with directions for use, safety glasses or other eye protection are not required. Product after dilution according to directions, is non-irritating.

US state regulations

US. Massachusetts RTK - Substance List

Hydrogen peroxide (CAS 7722-84-1)

Tetrahydrofurfuryl alcohol (CAS 97-99-4)

US. New Jersey Worker and Community Right-to-Know Act

Hydrogen peroxide (CAS 7722-84-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrogen peroxide (CAS 7722-84-1)

Tetrahydrofurfuryl alcohol (CAS 97-99-4)

US. Rhode Island RTK

Hydrogen peroxide (CAS 7722-84-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16 - OTHER INFORMATION

Issue Date	27 – April – 2015
Revision Date	–
Version #	01
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0

NFPA ratings



Disclaimer: EnvirOx LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.