

# SAFETY DATA SHEET

Issue Date 15-Apr-2015 Revision Date 27-Sep-2016 Version 2

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name TEC-AN OX-50

Other means of identification

Product Code 369 UN/ID No. UN2014 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use CIP additive

Uses advised against No information available

**Manufacturer Address** 

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

#### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Oxidizing liquids	Category 3
Oral: Acute Toxicity	Category 4
Specific target organ toxicity-single exposure	Category 3

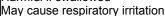
<u>Label elements</u> Emergency Overview

# Danger

# Hazard statements

Causes severe skin burns and eye damage

May intensify fire; oxidizer Harmful if swallowed





Appearance aqueous solution

Physical state liquid

**Odor** Slight Pungent

#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Take any precaution to avoid mixing with combustibles.

Keep/Store away from clothing/combustible materials

Do not eat, drink or smoke when using this product

Use only in well ventilated areas

# **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see Section 4 on this label)

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a poison center/doctor if you feel unwell.

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up. Store in a well ventilated place. Keep container tightly closed.

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

# Other Information

- · May be harmful if swallowed
- · Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Water	7732-18-5		
Hydrogen peroxide	7722-84-1	25	
Phosphoric acid	7664-38-2	1.1	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### First aid measures

Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician. Do not **General advice** 

breathe gas/fumes/vapor/spray.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eve wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting

lower and upper eyelids. Consult a physician.

**Skin Contact** Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention.

Remove contaminated clothing and wash before reuse.

Remove victim from immediate source of exposure to fresh air. If breathing is difficult, Inhalation

> administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention.

Ingestion Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate

medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing

or unconscious person.

Self-protection of the first aider Use personal protective equipment as required.

### Most important symptoms and effects, both acute and delayed

Corrosive to eyes, nose, throat and lungs. May cause irreversible tissue damage to the **Symptoms** 

eyes including blindness. May cause skin irritation.

#### Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray may be used to keep fire exposed containers cool.

Unsuitable extinguishing media None known.

### Specific hazards arising from the chemical

Oxidizer. Hydrogen peroxide itself is noncombustible. On decomposition, it releases oxygen which may support combustion or intensify a fire. Oxidizing materials may cause spontaneous ignition with combustible materials. Contact with flammables may cause fire or explosion. Risk of explosion if heated under confinement. Sealed containers may rupture when heated.

### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection

equipment. Approach spill from upwind.

Environmental precautions See Section 12 for additional ecological information. Do not allow into any sewer, on the

ground or into any body of water. Prevent product from entering drains.

**Methods for containment**Completely contain spilled material with dikes or sand bags, etc.

Methods for cleaning up If safe to do so, stop leakage. Recover as much material as possible into containers (do

not use original containers) for disposal. Dilute with large quantities of water. Avoid incompatible materials. In case of contact with clothing or combustible materials, avoid product drying out by submersion in or rinsing with water. If allowed to dry out on organic

materials or combustibles, ignition may result.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest.

Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate

ventilation. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Operate and store in cool, well-ventilated area. Keep away from heat sources. Keep away from incompatible products. Prevent all contact with organics and combustible substances. Use equipment and containers which are compatible with the substance. Before all operations, passivate the piping circuits and vessels. Never return unused product to storage container. Containers and equipment used to handle hydrogen peroxide should be used exclusively for hydrogen peroxide. Hydrogen peroxide should not be stored in an unvented container. Keep in original container, closed. Provide containment for storage of the package. Regularly check condition and temperature of containers. Ensure adequate supply of water in the event of an accident.

Incompatible materials

Acids, bases, metals, salts of metals, reducing agents, organic materials, flammable

substances.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm	IDLH: 75 ppm
7722-84-1		TWA: 1.4 mg/m <sup>3</sup>	TWA: 1 ppm
		(vacated) TWA: 1 ppm	TWA: 1.4 mg/m <sup>3</sup>
		(vacated) TWA: 1.4 mg/m <sup>3</sup>	-

# **Appropriate engineering controls**

Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Suitable protective clothing. Rubber gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work

area and clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state liquid

Appearance aqueous solution Odor Slight Pungent

Color clear colorless Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available
Melting point/freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
Flammability Limit in Air

No information available
No information available
No information available
No information available

Upper flammability limit: No information available
Lower flammability limit: No information available

#### **369 TEC-AN OX-50**

Vapor pressureNo information availableVapor densityNo information available

Specific Gravity 1.095

Water solubility Soluble in water

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available No information available **Dynamic viscosity** No information available **Explosive properties Oxidizing properties** No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
Bulk density
No information available

# 10. STABILITY AND REACTIVITY

### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### Conditions to avoid

Excessive heat and contamination of any kind.

### Incompatible materials

Acids, bases, metals, salts of metals, reducing agents, organic materials, flammable substances.

# **Hazardous Decomposition Products**

Oxygen.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information No data available

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Risk of serious damage to eyes.

**Skin Contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen peroxide	= 801 mg/kg (Rat)	= 4060 mg/kg (Rat) = 2000 mg/kg	= 2 g/m³(Rat)4 h
7722-84-1		( Rabbit )	

# Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide	A3	Group 3	-	-
7722-84-1				

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

L	Chemical Name	Algae/aquatic plants	Fish	Crustacea
	Hydrogen peroxide	2.5: 72 h Chlorella vulgaris mg/L	16.4: 96 h Pimephales promelas	7.7: 24 h Daphnia magna mg/L
	7722-84-1	EC50	mg/L LC50 18 - 56: 96 h Lepomis	EC50 18 - 32: 48 h Daphnia magna
			macrochirus mg/L LC50 static 10.0 -	mg/L EC50 Static
			32.0: 96 h Oncorhynchus mykiss	-
			mg/L LC50 static	

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Hydrogen peroxide	Toxic
7722-84-1	Corrosive
	Ignitable
	Reactive

# 14. TRANSPORT INFORMATION

DOT Regulated UN/ID No. UN2014

Proper shipping name Hydrogen Peroxide, Aqueous Solution

Hazard Class 5.1 (8)
Packing Group

# 15. REGULATORY INFORMATION

# **International Inventories**

**TSCA** Complies Complies DSL/NDSL **EINECS/ELINCS** Complies **ENCS** Does not comply Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

# Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard Yes
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen peroxide	-	1000 lb	-
7722-84-1			

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## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrogen peroxide	X	X	X
7722-84-1			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

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NFPA Health hazards 3 Flammability 0 Instability 1 Physical and Chemical

Properties OX

HMIS Health hazards 3 Flammability 0 Physical hazards 1 Personal protection X

Prepared By Imt

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**Revision Note** 

No information available

**Disclaimer** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**End of Safety Data Sheet**