Anderson Chemical Company 325 South Davis Ave. Litchfield, MN 55355

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: SAN-TEC 15 **Product Code:** 33

Product Use: Antimicrobial solution

Chemical Family: Oxidizer

Registration Number: 63838-2

Dilution Information: 0.05%-0.30% (v/v)

Anderson Chemical Company
325 S. Davis Ave., Litchfield, MN 55355
(320) 693-2477 (8 AM to 5 PM, CST, Monday to Friday)

24 Hr. Emergency Tel.#: 800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), These requirements differ from the classification criteria and hazard information required for safety data sheets of non-pesticide chemicals. Please see Section 15 for FIFRA labeling information.

Classification of the Substance or Mixture:

Skin Corrosion - Category 1
Serious Eye Damage - Category 1
Oxidizing Liquids - Category 2
Corrosive to Metals - Category 1
Organic Peroxides - Type F
Acute Toxicity - Oral Category 4
Acute Toxicity - Dermal Category 5
Hazardous to the Aquatic Environment, Chronic Toxicity Category 1
Hazardous to the Aquatic Environment, Acute Toxicity Category 1

Signal Word: DANGER

Hazard Statements:

Causes severe skin burns and eye damage
May intensify fire; oxidizer
May be corrosive to metals
Harmful if swallowed
May be harmful in contact with skin
Very toxic to aquatic life with long lasting effects
Heating may cause fire

Precautionary Statements:

Prevention

Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands thoroughly after handling
Keep away from heat, sparks, or open flames - No smoking.
Keep/Store away from clothing/combustible materials.
Do not eat, drink or smoke when using this product.
Keep only in original container.
Take any precaution to avoid mixing with combustibles.
Avoid release to the environment

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell.
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.
For specific treatment see Section 4 First Aid.

SAFETY DATA SHEET

Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical, or alcohol resistant foam for extinction.
Absorb spillage to prevent material damage.

Storage
It is recommended to store this product at temperatures where the bulk liquid will not exceed 86°F / 30°C. Keep cool.
Store away from other materials. Protect from sunlight.
Store locked up.
Store in a corrosive resistant container with a resistant inner liner.

Disposal
Dispose of contents/container in accordance with local regulations.

Hazards not Otherwise Classified:
Product is not combustible. Decomposition occurs at temperatures above 147°F releasing oxygen that could initiate or promote compbustion of other materials.

Classification of the Product AT USE DILUTION:
Acute Toxicity - Oral Category 5

GHS label elements for Product AT USE DILUTION

Signal Word: NONE

Hazard Pictograms: NONE

Hazard Statements:
May be harmful if swallowed

Precautionary Statements:
Prevention
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product.

Response
IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

Disposal
Dispose of contents/container in accordance with local regulations.

Hazards not Otherwise Classified:
No other hazards classified.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Synonym	CAS Number	Concentration
HYDROGEN PEROXIDE	H2O2	7722-84-1	21.5-22.5%
PERACETIC ACID	PAA	79-21-0	14.8-15.7%
ACETIC ACID	N/A	64-19-7	15.8-16.6%

Product AT USE DILUTION

Ingredient	Synonym	CAS Number	Concentration
HYDROGEN PEROXIDE	H2O2	7722-84-1	0.01-0.07%
PEROXYACETIC ACID	PAA	79-21-0	0.009-0.050%

SECTION 4 - FIRST-AID MEASURES

Inhalation: Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. If direct contact during rescue breathing poses a threat to the first aid provider, “Avoid mouth-to-mouth contact by using a barrier device."
Skin Contact: Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower with a flushing duration of 30 minutes. Immediately call POISON CENTER/doctor. Wash contaminated clothing before re-use.
Eye Contact: Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while

SAFETY DATA SHEET

holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. Immediately call a POISON CENTER/doctor.
Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Most Important Symptoms and Effects, both Acute and Delayed: Causes severe skin burns and eye damage, burning of the mouth, throat, and esophagus.
Indication of any Immediate Medical Attention and Special Treatment Needed: Treat symptomatically.

Product AT USE DILUTION:

Inhalation: Seek medical attention if symptoms occur.
Skin Contact: Rinse with plenty of water.
Eye Contact: Rinse with plenty of water.
Ingestion: Rinse mouth. Immediately call a poison center/doctor if symptoms occur.
Most Important Symptoms and Effects, both Acute and Delayed: Irritation of the gastrointestinal tract.
Indication of any Immediate Medical Attention and Special Treatment Needed: Treat symptomatically

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Dry powder, foam, carbon dioxide, water spray, sand. Do NOT use heavy water stream.

Special hazards arising from the substance or mixture: Non combustible. May give off irritating or toxic fumes (or gases) in a fire.

Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012): Non flammable

Hazardous Combustion Products: May cause fire and explosions when in contact with incompatible materials.

Special protective equipment and precautions for firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

Product AT USE DILUTION:

Extinguishing Media: Material is not flammable.

Special hazards arising from the substance or mixture: No special hazards known.

Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012): Non flammable

Hazardous Combustion Products: None known.

Special protective equipment and precautions for firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Methods and materials for containment and cleaning up: SMALL SPILLS (less than 1 gallon): Neutralize with soda ash or cover with dry earth, sand or other non combustible material, place into loosely covered plastic containers for later disposal. If neutralized, material can be diluted into drain. LARGE SPILL: Restrict access to area until completion of clean up. Prevent liquid from entering sewers or waterways. Stop or reduce leak if safe to do so. Dike with inert material (sand, earth, etc.). Collect into plastic containers for disposal. Ensure adequate decontamination of tools and equipment following clean up.
Special spill response procedures: Collect spills in plastic containers only. Prevent from entering sewers, waterways, or low areas.

Product AT USE DILUTION:

Personal precautions, protective equipment and emergency procedures: Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
Methods and materials for containment and cleaning up: SMALL SPILLS (less than 1 gallon): Dike small spills with inert material (sand, earth, etc.). Collect in plastic containers only. Wash area and let dry. LARGE SPILL: Should be diked with sand ahead of spill. Collect in plastic containers only. Ensure adequate decontamination of tools and equipment following clean up.
Special spill response procedures: Collect spills in plastic containers only. Prevent from entering sewers, waterways, or low areas.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling: Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.
Conditions for Safe Storage: It is recommended to store this product at temperatures where the bulk liquid will not exceed 86°F / 30°C. Store in a cool, dry, well ventilated place away from direct sunlight. Keep container closed when not in use.

Incompatible Materials: Avoid strong reducing agents, soft metals, heat and bases (unless product has been diluted to less than 1000ppm, then bases may be used to gradually adjust to a pH of less then 9).

Product AT USE DILUTION:

Precautions for Safe Handling: Do not swallow or ingest. Wash hands thoroughly after handling.
Conditions for Safe Storage: Store in a cool, dry, well ventilated place away from direct sunlight. Keep container closed when not in use.

SAFETY DATA SHEET

Incompatible Materials: Avoid strong reducing agents, soft metals, heat and bases.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:			OSHA PEL	ACGIH TLV	
CHEMICAL NAME	CAS NO.	TWA	STEL/CEILING	TWA	STEL
ACETIC ACID	64-19-7	10 ppm	15 ppm/40 ppm (CalOSHA)	10 ppm	15 ppm
HYDROGEN PEROXIDE	7722-84-1	1 ppm	1 ppm/N/A (CalOSHA)	1 ppm	N/A
PERACETIC ACID	79-21-1	N/A	N/A	N/A	0.4 ppm

Ventilation and engineering measures: Forced air, local exhaust, or open air is adequate.

Respiratory Protection: In case of confined spaces or high levels encountered in the air, wear self contained breathing apparatus.

Skin Protection: Wear chemical resistant gloves and chemical resistant garments when handling, wash garments before re-use.

Eye/Face Protection: Wear chemical goggles; also wear a face shield if splashing hazard exists.

Other Protective Equipment: Eye wash facility and emergency shower should be in close proximity.

General Hygiene Conditions: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

Product AT USE DILUTION:

Ventilation and engineering measures: No special equipment needed.

Respiratory Protection: No respiratory personal protective equipment (PPE) required.

Skin Protection: No personal protective equipment (PPE) required.

Eye/Face Protection: No personal protective equipment (PPE) required.

Other Protective Equipment: No special protective equipment required.

General Hygiene Conditions: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid

Odor: Vinegar odor

pH: <1 (1:10)

Melting/Freezing point: <-20º F / <-29 º C

Initial boiling point and boiling range: No information available

Flash Point: >207º F / >98 º C

Flammability (solid, gas): Non flammable

Vapor Pressure (mm Hg): 27

Specific gravity: 1.15 g/mL

Solubility in Water: Complete

Auto ignition Temperature: >518º F/ >270º C

Decomposition temperature: No information available

Viscosity: 10-20 cSt at 20ºC / 68ºF

Volatiles (% by weight): >99

Volatile Organic Compounds (VOC's): No information available

Product AT USE DILUTION:

Appearance: Clear colorless liquid

Odor: Slight vinegar odor

pH: 2.5-3.5

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Reactive with bases, metals, reducing agents and combustible materials

Chemical Stability: Stable for up to 1 year when stored under normal conditions.

Possibility of Hazardous Reactions: May react with incompatible materials

Conditions to Avoid: Incompatible materials and high temperatures.

Incompatible Materials: Reactive with bases, metals, reducing agents and combustible materials

SAFETY DATA SHEET

Hazardous Decomposition Products: Oxygen which supports combustion.

Product AT USE DILUTION:

Reactivity: Reactive with bases, metals, reducing agents and combustible materials
Chemical Stability: Stable for up to 8-24 hours in distilled water. Chemical stability may be drastically reduced if hard water is used.
Possibility of Hazardous Reactions: May react with incompatible materials
Conditions to Avoid: Incompatible materials and high temperatures
Incompatible Materials: Reactive with bases, metals, reducing agents and combustible materials
Hazardous Decomposition Products: None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry - inhalation: YES

Routes of entry - skin & eye: YES

Routes of entry - ingestion: YES

Routes of entry - skin absorption: NO

Potential Health Effects:

Signs and symptoms of short term (acute) exposure:

Inhalation: Inhalation of the mist may produce severe irritation of respiratory tract, characterized by coughing, choking, shortness of breath, headaches, dizziness, nausea, weakness and/or drowsiness.

Ingestion: Corrosive! Swallowing causes severe burns of mouth, throat, and stomach. Severe scarring of tissue, corrosion, permanent tissue destruction and death may result. Symptoms may include severe pain, nausea, vomiting, diarrhea, shock, hemorrhaging and/or fall in blood pressure. Damage may appear days after exposure.

Skin: Corrosive! Contact with skin causes irritation or severe burns and scarring with greater exposures.

Eye: Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Potential Chronic Health Effects:

Mutagenicity: Not known to have mutagenic effects in humans or animals.

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive effects: No known reproductive effects in humans or animals.

Sensitization to material: Not a known sensitizer in humans or animals.

Specific target organ effects: No information available.

Medical conditions aggravated by overexposure: No information available

Toxicological data: The calculated ATE values for this mixture are:

ATE oral = 494 mg/kg

ATE dermal = 2281 mg/kg

ATE inhalation = >20 mg/L or >20,000 ppm

Product AT USE DILUTION:

Information on likely routes of exposure:

Routes of entry - inhalation: NO

Routes of entry - skin & eye: NO

Routes of entry - ingestion: YES

Routes of entry - skin absorption: NO

Potential Health Effects:

Signs and symptoms of short term (acute) exposure:

Inhalation: Not a respiratory irritant.
Ingestion: May cause irritation to the digestive system.
Skin: Not a skin irritant but may cause skin irritation on some individuals if not washed from skin. Rinse hands thoroughly if exposed.
Eye: Not an eye irritant.

SAFETY DATA SHEET

Potential Chronic Health Effects:

Mutagenicity: No known mutagenic effects.

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive effects: No known reproductive effects.

Sensitization to material: No expected to cause sensitization.

Specific target organ effects: No information available

Medical conditions aggravated by overexposure: No information available.

Toxicological data: The calculated ATE values for this mixture are:

ATE oral = 4789 mg/kg

ATE dermal = >10,000 mg/kg

ATE inhalation = >20 mg/L or >20,000 ppm

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
Acute Toxicity to fish LC50 0.99 mg/L (fathead minnow)
Acute Toxicity to crustacean LC50 0.27 mg/L (Ceridodaphnia dubia).
Acute Toxicity to marine LC50 LC50 2.17 mg/L (Pacific Silverside)

Chronic Toxicity to fish LC50 1.16 mg/L (fathead minnow)
Chronic Toxicity to crustacean LC50 0.86 mg/L (Ceridodaphnia dubia)
Chronic Toxicity to marine LC50 0.49 mg/L (Pacific Silverside)
Persistence and degradability: Not expected to persist. Expected to readily biodegrade.

Bioaccumulation potential: Not expected to bio accumulate.

Mobility in soil: No information available

Product AT USE DILUTION

Ecotoxicity: No information available.
Persistence and degradability: No information available.

Bioaccumulation potential: No information available.

Mobility in soil: No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for disposal: Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.
Method of disposal: Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
RCRA: If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of: Corrosivity D002

Product AT USE DILUTION:

Handling for disposal: Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.
Method of disposal: Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

SECTION 14 - TRANSPORTATION INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying classifications

US 49 CFR/DOT/IATA/IMDG Information:
UN No.: 3109
UN Proper Shipping Name: Organic peroxide type F, liquid (<=25% peracetic acid with <=26% hydrogen peroxide)
Transportation hazard class(es): 5.2 (8)

Environmental hazards: No hazards identified.

Anderson Chemical Company 325 South Davis Ave. Litchfield, MN 55355

SAFETY DATA SHEET

SECTION 15 - REGULATORY INFORMATION

FIFRA Classification/Typical Hazard Labeling, as outlined in EPA Label Review Manual

Hazard Data

Signal Word	DANGER
Acute Toxicity, oral	Category III: Harmful if swallowed
Acute Toxicity, dermal	Category III: Harmful if absorbed through skin
Acute Toxicity, inhalation	Category IV
Skin irritation/corrosion	Category I: Corrosive. Causes skin burns
Serious eye damage	Category I: Corrosive, Causes irreversible eye damage
Sensitization	Not Classified (NC)
Environmental (aquatic) toxicity	This pesticide is toxic to fish and other aquatic organisms.

US Federal Information:

TSCA information: All components are listed and active on the TSCA inventory.
US CERCLA Reportable quantity (Hazardous substance RQ): Acetic acid has a RQ of approximatetly 31000 lbs. of as is chemical.
US EPCRA Reportable quantity (Extremely hazardous substance RQ): Peracetic acid has a RQ of approximately 3500 lbs. of as is chemical. **Clean Air Act Section 112(r) Threshold Quantity (TQ):** Peracetic acid has a TQ of approximately 66000 lbs. of as is chemical.
SARA Title III: Reactivity Hazard, Acute Health Hazard

International Information: WHMIS: Class C: Oxidizing material. Class E: Corrosive material
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
California Prop. 65: This product does not contain any chemicals listed.

SECTION 16 - OTHER INFORMATION

NFPA	**Health Hazards 3**	**Flammability 1**	**Stability 1**	**Special Hazards OX, COR**
HMIS	**Health Hazards 3**	**Flammability 1**	**Physical Hazard 1**	**Personal Protection X**

Uniform Fire Code (NFPA 400): Organic Peroxide: Class IV, Liquid

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0
Special hazards: OX = Oxidizer; COR = Corrosive
Personal Protection = C (safety glasses, gloves, protective apron)

Product AT USE DILUTION:

NFPA	**Health Hazards 2**	**Flammability 0**	**Stability 0**	**Special Hazards NONE**
HMIS	**Health Hazards 2**	**Flammability 0**	**Physical Hazard 0**	**Personal Protection 0**

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0
Personal Protection = 0 (none)

Legend:

SARA: The Superfund Amendments and Reauthorization Act
RCRA: Resource Conservation and Recovery Act
TSCA: Toxic Substances Control Act
CFR: Code of Federal Regulations
DOT: Department of Transportation
ATE: Acute Toxicity Estimate
Preparation date: 10/08/2024