



PURIFY

SAFETY DATA SHEET

PURIFY 100

I. IDENTIFICATION

Product Name: Purify 100	Distributor: Purify 1707 Townhurst Drive Houston, TX 77043
Product Code: 21031	Phone: 713-463-1929
Synonym: N/A	Website: www.purifywt.com
Recommendations / Restrictions on Use: Use only for the purpose on the product label.	Emergency Contact: 1-800-424-9300 (CHEMTREC)

II. HAZARDS IDENTIFICATION

CLASSIFICATIONS

Skin corrosion/irritation:	Category 1 Subcategory B
Serious eye damage/irritation:	Category 1
Specific target organ toxicity: (single exposure)	Category 3
Acute aquatic toxicity:	Category 2

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. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

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)

Unknown Acute Toxicity: 0% of the mixture consists of ingredients of unknown toxicity.

LABEL ELEMENTS

EMERGENCY OVERVIEW



DANGER!

Hazard Statements:

Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life.



Appearance: Clear, Colorless

Physical State: Liquid

Odor: N/A

Precautionary Statements: Response (See Section IV)

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.
Skin:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion:	Rinse mouth. DO NOT induce vomiting.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%	The exact concentration is being withheld as a trade secret.
Zinc Chloride	7646-85-7	5-10	

IV. FIRST AID MEASURES

Skin:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	General advice: Immediate medical attention is required.
Eyes:	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.	Most important symptoms: N/A
Inhalation:	Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.	Immediate medical attention: Product is a corrosive material. Use of a gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.
Ingestion:	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.	
Self-protection of the first aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.		

V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Caution: Use of water spray when fighting fire may be inefficient.	Specific Hazards Arising from the Chemical: The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.
Special Protective Equipment and Firefighter Precautions: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Explosion Data (sensitivity to mechanical impact or static discharge): None.	

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.
Environmental Precautions:	Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Cleanup:	Dilute spill with sodium bicarbonate to pH greater than 6.0. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

VII. HANDLING AND STORAGE

Precautions for Safe Handling:	Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.
Conditions for Safe Storage:	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.
Incompatible Materials:	Incompatible with strong acids and bases. Incompatible with oxidizing agents.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	Chemical Name: Zinc Chloride (7646-85-7)
Engineering Controls: Showers, Eyewash stations & Ventilation systems.	ACGIH TLV: STEL: 2 mg/m ³ fume; TWA 1 mg/m ³ fume
	OSHA PEL: TWA: 1 mg/m ³ fume, (vacated) TWA: 1 mg/m ³ fume; (vacated) STEL: 2 mg/m ³ fume
	NIOSH IDLH: IDLH: 50 mg/m ³ fume; TWA: 1 mg/m ³ fume; STEL: 2 mg/m ³ fume
	<i>NIOSH IDLH Immediately Dangerous to Life or Health</i>
	Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

INDIVIDUAL PROTECTION MEASURES:

Respiratory:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators or air purifying respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Skin:	Wear chemical resistant gloves.
Eye:	Tight sealing safety goggles. Face protection shield.
General Hygiene:	When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Flammability (Solid, Gas):	N/A
Appearance:	Clear, Colorless	Upper Flammability Limit:	N/A
Odor:	N/A	Lower Flammability Limit:	N/A
Odor Threshold:	N/A	Vapor Pressure:	N/A
pH:	1.0 - 2.0	Vapor Density:	N/A
Specific Gravity:	1.408	Water Solubility:	Soluble in water
Viscosity:	N/A	Partition Coefficient: (n-octanol/water)	N/A
Melting / Freezing Point:	N/A	Autoignition Temperature:	N/A
Boiling Point / Range:	N/A	Decomposition Temperature:	N/A
Flash Point:	N/A	Density (lbs/gal):	N/A
Evaporation Rate:	N/A	VOC Content:	N/A

X. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	Exposure to air or moisture over prolonged periods.
Incompatible Materials:	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

XI. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Eyes, Skin, Ingestion, and Inhalation

Sensitization: Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to eyes.

Germ Cell Mutagenicity: N/A

Carcinogenicity: N/A

Reproductive Toxicity: N/A

STOT - Single Exposure: N/A

STOT - Repeated Exposure: N/A

Chronic Toxicity:

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.

Target Organ Effects:

Central Vascular System (CVS), EYES, Respiratory system, Skin.

Aspiration Hazard: N/A

Numerical Measures of Toxicity:

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

These values were calculated based on Chapter 3.1 of the GHS document.

Symptoms of Exposure:

Product Information: The primary effects and toxicity of this material are due to its corrosive nature.

Eye Contact: Corrosive to the eyes and may cause severe damage including blindness.

Ingestion: Causes burns.

Skin Contact: The product causes burns of eyes, skin and mucous membranes.

Inhalation: Causes burns.

Chemical Name: Zinc Chloride (7646-85-7)

Oral LD50: 1100 mg/kg (Rat)

Dermal LD50: ---

Inhalation LD50: ---

XII. ECOLOGICAL INFORMATION

Persistence and Degradability: N/A

Bioaccumulative Potential: N/A

Other Adverse Effects: N/A

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

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging:	Do not reuse container.
US EPA Waste Number:	D002

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name:	Zinc Chloride (7646-85-7)
California Hazardous Waste Status:	Toxic, Corrosive

XIV. TRANSPORT INFORMATION

DOT Proper Shipping Name: UN1760, Corrosive Liquid, n.o.s. (contains Zinc Chloride), 8, PG III

The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under 49 CFR, IATA and IMDG to assure regulatory compliance.

XV. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

TSCA:	Complies
DSL/NDL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Does not comply
IECSC:	Complies
KECL:	Complies
PICCS:	Complies
AICS:	Complies

LEGEND

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL:	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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name: Zinc Chloride (7646-85-7)
SARA 313 - Threshold Values %: 1.0

SARA Hazard Categories: Acute health hazard; chronic health hazard (311/312)

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).

Chemical Name: Zinc Chloride (7646-85-7)
CWA - Reportable Quantities: 1000 lb
CWA - Toxic Pollutants: X
CWA - Priority Pollutants: --
CWA - Hazardous Substances: X

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: Zinc Chloride (7646-85-7)
Hazardous Substances RQs: 1000 lb
CERCLA/SARA RQ: --
Reportable Quantity (RQ): RQ 1000 lb final RQ
RQ 454 kg final RQ

US STATE REGULATIONS

California Prop. 65: This product does not contain any Proposition 65 chemicals.

U.S. Right-to-Know Regulations:
Zinc Chloride (7646-85-7): New Jersey, Massachusetts, Pennsylvania

U.S. EPA Label Information: N/A

XVI. OTHER INFORMATION

Revision Notes: Rev. 09/06/2019

HMS Rating:

Health (Blue):	3
Flammability (Red):	0
Physical Hazard (Yellow):	0
PPE (White):	X

Hazard Classification:

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe



PURIFY

1707 Townhurst Drive
Houston, TX 77043
713-463-1929
www.purifywt.com

24 Hour Emergency Phone: 1-800-424-9300

The information provided in this 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.