

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS &amp; EU Standards

SDS Revision: 1.0

SDS Revision Date: 10/21/2024

## 1. PRODUCT &amp; COMPANY IDENTIFICATION

1.1	Product Name:	<b>INFERNOX™</b>
1.2	Chemical Name:	Aqueous Solution
1.3	Synonyms:	NA
1.4	Trade Names:	InfernoX™
1.5	Product Use:	NA
1.6	Distributor's Name:	<b>Titaness Global, LLC</b>
1.7	Distributor's Address:	668 North Coast Hwy, Suite 121, Laguna Beach, CA 92651
1.8	Emergency Phone:	<b>INFOTRAC +1 (800) 535-5053 // +1 (352-323-3500)</b>
1.9	Business Phone / Fax:	Tel: +1 (256) 754-4304

## 2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety standards. <b>DANGER! CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE DAMAGE.</b> Classification: Skin Irrit. 2, Eye Dam. 1	
2.2	Label Elements:	<b>Hazard Statements (H):</b> H315 – Causes skin irritation. H318 – Causes serious eye damage. <b>Precautionary Statements (P):</b> P264+P265 – Wash thoroughly after handling. Do not touch eyes. P280 – Wear eye/face protection/protective gloves. P302+P352: IF ON SKIN: Wash with plenty of soap and warm water. P332+P317 – If skin irritation occurs: Get medical help. P321 – For specific treatment, see section 4 of this Safety Data Sheet. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317 – Get medical help. P362+P364 – Take off contaminated clothing and wash it before reuse. P337+P317 – If eye irritation persists: Get medical help.	 The image shows two red diamond-shaped hazard pictograms. The top one is the Corrosive (C) pictogram, showing a liquid dripping from two test tubes onto a hand and a metal surface. The bottom one is the Exclamation mark (Xn) pictogram, showing a black exclamation mark inside a red diamond.
2.3	Other Warnings:	<b>KEEP OUT OF REACH OF CHILDREN.</b>	

## 3. COMPOSITION &amp; INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )									OTHER
					ACGIH		NOHSC			OSHA				
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
PROPRIETARY INGREDIENTS	NA	NA	NA	60-100	NA	NA	NF	NF	NF	NA	NA	NA		
AMMONIUM LAURETH SULFATE	32612-48-9	NA	608-760-0	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
	Skin Irrit. 2, Eye Irrit. 2A; H315, H319													
SODIUM DIOCTYL SULFOSUCCINATE	577-11-7	NA	209-406-4	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
	Skin Irrit. 2, Eye Dam. 1; H315, H318													
ALCOHOLS, C <sub>8-11</sub> , ETHOXYLATED	68439-46-3	NA	614-482-0	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
	Acute Tox. (oral) 4, Eye Dam. 1; H302, H318													
LAURAMINE OXIDE	1643-20-5	NA	216-700-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
	Acute Tox. (oral) 4, Skin Irrit. 2A, Eye Dam. 1, Aq. Acute 1, Aq. Chronic 2; H302, H315, H318, H400, H411													

## 4. FIRST AID MEASURES

4.1	First Aid:	<b>Ingestion:</b> DO NOT INDUCE VOMITING. Contact the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. <b>Eyes:</b> If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek medical attention. <b>Skin:</b> Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. <b>Inhalation:</b> Remove victim to fresh air at once.
4.2	Effects of Exposure:	<b>Ingestion:</b> If product is swallowed, may cause nausea, intestinal discomfort, vomiting and/or diarrhea. <b>Eyes:</b> Symptoms of overexposure may include redness, itching, irritation, and watering. <b>Skin:</b> May be irritating to skin in some sensitive individuals. <b>Inhalation:</b> None expected.
4.3	Symptoms of Overexposure:	Symptoms of overexposure may include redness, itching, irritation, and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas.
4.4	Acute Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affected areas and with some sensitive individuals.
4.5	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a single accidental ingestion.
4.6	Target Organs:	Eyes, Skin

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## 4. FIRST AID MEASURES – cont'd

4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, and disorders of the target organs (eyes, skin).	<b>HEALTH</b>		<b>1</b>
			<b>FLAMMABILITY</b>		<b>0</b>
			<b>PHYSICAL HAZARDS</b>		<b>0</b>
			<b>PROTECTIVE EQUIPMENT</b>		<b>B</b>
			<b>EYES</b>	<b>SKIN</b>	

## 5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO <sub>2</sub> , NO <sub>x</sub> ).	
5.2	Extinguishing Methods:	Water, Foam, CO <sub>2</sub> , Dry Chemical	
5.3	Firefighting Procedures:	First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH-approved self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, rinse contaminated equipment with soapy water before returning to service.	



## 6. ACCIDENTAL RELEASE MEASURES

6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE). For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) or <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), wear appropriate personal protective equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.
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## 7. HANDLING &amp; STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Do not eat, drink, or smoke while handling this product.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat and open flames.
7.3	Special Precautions:	Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.

## 8. EXPOSURE CONTROLS &amp; PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m <sup>3</sup> )	ACGIH		NOHSC			OSHA			OTHER	
		CHEMICAL NAME(S)		TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH
		HEXYLENE GLYCOL		NA	25	(25)	121	NF	NA	NA	NA
8.2	Ventilation & Engineering Controls:	When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink, or washbasin is available in case of exposure to eyes.									
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.									
8.4	Eye Protection:	<b>AVOID EYE CONTACT DUE TO IRRITATION POTENTIAL.</b> Wear protective eyewear (e.g., safety glasses with side-shield) always when handling large quantities (e.g., ≥ 1 gallon (3.8 L)) of this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.									
8.5	Hand Protection:	May cause skin irritation. Wear protective gloves. Do NOT touch eyes.									
8.6	Body Protection:	No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available.									

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**9. PHYSICAL & CHEMICAL PROPERTIES**

9.1	Appearance:	Clear, amber liquid
9.2	Odor:	NA
9.3	Odor Threshold:	NA
9.4	pH:	9.0 – 11.0
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	> 105 °C (> 221 °F)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	0.98 - 1.02
9.12	Solubility:	Complete in water
9.13	Partition Coefficient (log P <sub>ow</sub> ):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

**10. STABILITY & REACTIVITY**

10.1	Stability:	This product is stable in sealed containers.
10.2	Hazardous Decomposition Products:	Oxides of carbon and sulfur (e.g., CO, CO <sub>2</sub> , SO <sub>2</sub> )
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, and direct sunlight.
10.5	Incompatible Substances:	Strong acids, bases, oxidizers, and quaternary disinfectants. Test the compatibility of the product with rubber, plastic, or metal components and acids before use.

**11. TOXICOLOGICAL INFORMATION**

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, and are presented below: <u>Fatty Acids, C<sub>6-12</sub>, Methyl Esters</u> : LD <sub>50</sub> (oral, rat) > 23,500 mg/kg; <u>Benzenesulfonic Acid, C<sub>10-16</sub>, Alkyl Derivatives with Triethanolamine</u> : LD <sub>50</sub> (oral, rat) 1500-2500 mg/kg, LD <sub>50</sub> (dermal, rabbit) > 4000 mg/kg; <u>Ethanolamine</u> : LD <sub>50</sub> (oral, rat) 1515 mg/kg; <u>Tetrasodium EDTA</u> : LD <sub>50</sub> (oral, rat) 10000 mg/kg. ATE (mixture) > 5000 mg/kg.		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.		
11.7	Irritancy of Product:	See Section 4.2		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		

**12. ECOLOGICAL INFORMATION**

12.1	Environmental Stability:	There is no specific data available.
12.2	Effects on Plants & Animals:	There is no specific data available.
12.3	Effects on Aquatic Life:	There is no specific data available.

**13. DISPOSAL CONSIDERATIONS**

13.1	Waste Disposal:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.
13.2	Special Considerations:	NA

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## 14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND):	NOT REGULATED
14.2	IATA (AIR):	NOT REGULATED
14.3	IMDG (OCN):	NOT REGULATED
14.4	TDGR (Canadian GND):	NOT REGULATED
14.5	ADR/RID (EU):	NOT REGULATED
14.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED

## 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
15.4	CERCLA Reportable Quantity:	NA
15.5	Other Federal Requirements:	This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the SDS contains all the information required by the HPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.
15.7	State Regulatory Information:	<u>Ethanolamine</u> is listed on the following state criteria list(s): FL, MA, MN, PA, and WA. <u>Tetrasodium EDTA</u> is listed on the following state criteria list(s): NJ, and PA. No other hazardous ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
15.8	Other Requirements:	NA

## 16. OTHER INFORMATION

16.1	Other Information:	<b>DANGER! CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE DAMAGE.</b> Wash thoroughly after handling. Do not touch eyes. Wear eye/face protection. IF ON SKIN: Wash with plenty of soap and warm water. If skin irritation occurs: Get medical help. For specific treatment, see section 4 of this Safety Data Sheet. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical help. <b>KEEP OUT OF REACH OF CHILDREN.</b>
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Titaness Global, LLC's knowledge the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. ShipMate, Inc., Prestige Brands and C.B. Fleet Company, Inc., are not liable for any claims, losses, or damages of any third party, special, indirect, incidental, consequential, or exemplary damages from reliance on the information in this document. Be sure to consult the latest edition.
16.4	Prepared for:	<b>Titaness Global, LLC</b> 668 North Coast Hwy, Suite 121 Laguna Beach, CA 92651 USA Tel: +1 (256) 754-4304 <a href="https://titanessglobal.org">https://titanessglobal.org</a>
16.5	Prepared by:	<b>ShipMate, Inc.</b> P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 <a href="http://www.shipmate.com">http://www.shipmate.com</a>

# Titaness Global LLC



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## DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

## GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

## EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

## FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
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## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

## HEALTH, FLAMMABILITY &amp; REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

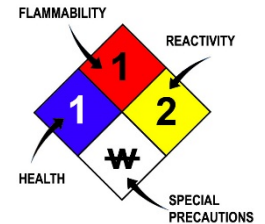
HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

## NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:	
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

## HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



## TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>10</sub>	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD <sub>10</sub> , LD <sub>10</sub> , & LD <sub>01</sub> or TC, TC <sub>01</sub> , LC <sub>10</sub> , & LC <sub>01</sub>	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	Median threshold limit
log K <sub>ow</sub> or log K <sub>oc</sub>	Coefficient of Oil/Water Distribution

## REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

## CLP/GHS (1272/2008/EC) PICTOGRAMS:

GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful/Irritating	Health Hazard	Environment

## PERSONAL PROTECTION RATINGS:

A		G	  
B	 	H	   
C	  	I	  
D	   	J	    
E	    	K	     
F	     	X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

## OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure