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

Product	ULTRAMINA TA 150
Internal identification code	--
Relevant recommended uses	Industrial uses.
Company	OXITENO USA, LLC
Address	9801 Bay Area Blvd PASADENA 77507
Phone number	(281) 909-7600
Fax	(630) 364-5120
Emergency Phone number	For Chemical Emergency - Spill, Leak, Fire, Exposure or Accident: Call CHEMTREC Day or Night 800-424-9300 (Domestic North America) International, Call +1 703-527-3887 (collect calls accepted)

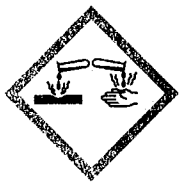
2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral, Category 4
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 1
Hazardous to the aquatic environment - acute, Category 2

Label Elements

- **Hazard Pictograms**



- **Signal Word** — DANGER
- **Hazard Statements**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H401 Toxic to aquatic life.

- **Precautionary Statements**

P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents / container in accordance with current legislation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Product Type	Substance.
Synonyms	Ethoxylated fatty amine.

CAS Number	61791-26-2.
EINECS/NLP number	500-153-8.
Impurities which contribute to the classification of the substance	There are no impurities which contribute to the classification of the substance.

4. FIRST-AID MEASURES

Procedure in Case of:

• **Ingestion**	Seek prompt medical attention. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.
• **Inhalation**	Seek prompt medical attention. Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
• **Skin contact**	Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek prompt medical attention.
• **Eye contact**	Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek prompt medical attention.

Most important symptoms/effects, acute and delayed

Ingestion- May cause: Nausea. Vomiting. Abdominal pain.
Inhalation- May cause: Nausea. Headache. Respiratory tract irritation.
Skin- May cause: Irritation.
Eyes- May cause severe irritation. Repeated or prolonged exposure may cause conjunctivitis.

Information for doctor	There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	In case of fire, use: Water spray. Alcohol resistant foam. Carbon dioxide (CO_2). Dry chemical powder.
Specific Hazards	Product is not flammable. In case of combustion may generate toxic and/or irritant fumes containing: Oxides of carbon. Nitrogen oxides.
Protective measures for fire-fighters	Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

NFPA Rating

• **Health**	2
• **Flammability**	1
• **Instability**	0
• **Special**	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.
Environmental Precautions	Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

Methods and materials for containment and cleaning up	Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling	Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If occurs accidental contact, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for safe storage	Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use. Prevent the storage temperature in exceeding 50°C.
Incompatibilities	Avoid contact with: Combustible materials. Strong oxidizing agents.
Packaging Material	Recommended: Stainless steel. Carbon steel. Polyethylene. Unsuitable: Zinc, copper, aluminum and these metals alloys.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

• **TLV-TWA (ACGIH)**	1,4-Dioxane: 20 ppm; 72 mg/m³ [Skin]. Ethylene oxide: 1 ppm; 1.8 mg/m³. Skin - Danger of cutaneous absorption.
• **PEL-TWA (OSHA)**	1,4-Dioxane: 100 ppm; 360 mg/m³ [Skin]. Ethylene oxide: 1 ppm. Skin - Danger of cutaneous absorption.
• **TLV-STEL (ACGIH)**	Not established.
• **LT(NR15)**	Ethylene oxide: 39 ppm; 70 mg/m³.
• **Odor Threshold**	Not available.
• **IDLH**	1,4-Dioxane: 500 ppm. Ethylene oxide: 800 ppm.
• **Biological Exposure Indices (ACGIH)**	Not established.
Engineering Control Measures	In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).

Individual Protection Measures

• **Eye Protection**	Side shields or wide vision safety goggles.
• **Skin Protection**	PVC apron. It is recommended to adopt safety boots/shoes.
• **Hand Protection**	Gloves made of: PVC (Polyvinyl chloride).
• **Breathing equipment**	In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self -contained breathing apparatus. It is recommended to wear face mask with organic vapors/amine cartridge in case of exposure to vapors/aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid. Yellowish.
Odour and Odour threshold	Not available.
pH	9.0 - 11.0.

Melting point/Freezing point	< 10 °C.
Initial Boiling Point and Boiling Range	> 300 °C.
Flash point	> 200 °C. Open cup (OC).
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	< 0.01 kPa.
Vapour density (air = 1)	> 1.
Relative density (water=1)	0.954 g/cm³ (25 °C).
Apparent density	Not available.
Solubility	Soluble in water.
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	100 cP (25 °C).

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use and storage.
Reactivity	No hazardous reactivity is expected.
Possibility of Hazardous Reactions	Not polymerize.
Conditions to avoid	High temperatures, ignition sources and prolonged exposure to the air.
Incompatible materials	Avoid contact with: Strong oxidizing agents. Combustible materials.
Hazardous Decomposition Products	In case of combustion may generate toxic and/or irritant fumes containing: Oxides of carbon. Oxides of nitrogen.
Considerations on the use of the product	Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
• **Oral**	LD50, rat: 620 mg/kg.
• **Inhalation**	Not available.
• **Dermal**	LD50, rat: > 10 g/kg.
Skin corrosion/irritation	Mild to moderate irritation (rabbit).
Serious eye damage/eye irritation	Moderately to severely irritating. (100 mg, 24h, rabbit).
Respiratory or skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	There are no known serious chronic effects and/or references on carcinogenic, mutagenic or teratogenic product activity.
Reproductive toxicity	Not available.

Specific target organ toxicity - Single exposure	Not available.
Specific target organ toxicity - Repeated exposure	Not available.
Aspiration hazard	Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic life. Invertebrate - LC50, 48h, Daphnia pulex (Water flea): 2350 µg/L [mortality]. Fish - LC50, 96h, Blue Gills: 1.3 mg/L.
Persistence and Degradability	Expected to be biodegradable.
Bioaccumulative Potential	Bioconcentration potential in aquatic organisms is moderate.
Mobility in soil	Not available.
Other Adverse Effects	Water hazard class 2: Hazard to water.

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal

• **Product**	The preferred options for disposal include reuse, recycling, co-processing, finding a use for a by-product, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.
• **Product Remains**	Same method as indicated for product.
• **Packaging**	Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.

14. TRANSPORT INFORMATION

Land Transport ANTT	Product not classified as hazardous in accordance with Resolution 420/2004 - Transport Ministry.
• **UN number**	N/A
• **Proper Shipping Name**	Not classified.
• **Hazard Class**	Not classified.
• **Hazard Number**	Not classified.
• **Packaging Group**	Not classified.
Maritime Transport IMDG	Product not classified as hazardous in accordance with IMDG Code - 2012 Edition - IMO (International Maritime Organization).
• **UN number**	N/A
• **Proper Shipping Name**	Not classified.
• **IMDG Class**	Not classified.
• **Packaging Group**	Not classified.
• **EmS**	Not classified.
Air Transport ICAO-TI and IATA-DGR	Product not classified as hazardous in accordance with Dangerous Goods Regulations - 55th Edition - IATA (International Air Transport Association).
• **UN number**	N/A
• **Proper Shipping Name**	Not classified.

• ICAO/IATA Class	Not classified.
• Label	Not classified.
• Packaging Group	Not classified.
Land Transportation ADR/RID (cross-border)	Product not classified as hazardous in accordance with Dangerous Goods by Road - Applicable from 1st January 2011 - Unece (United Nations Economic Commission for Europe).
• UN number	N/A
• Proper Shipping Name	Not classified.
• ADR/RID class	Not classified.
• Packaging Group	Not classified.
• Danger code (Kemler)	Not classified.
• Restriction Code	Not classified.
Land Transportation U.S DOT	Product not classified as hazardous in accordance with U.S. DOT (United States Departament of Transportation) - 49 CFR 172.101.
Packaging Type	Bulk and Non-bulk
Proper Shipping Name	Not classified.
Hazard Class or Division	Not classified.
ID Number	Not classified.
Packaging Group	Not classified.
Remarks	Not classified.

15. REGULATORY INFORMATION

Applicable standards	Resolution 420 / 2004 – Transport Ministry. IMDG Code - 2012 Edition - IMO (International Maritime Organization). Dangerous Goods Regulations - 55th Edition - IATA (International Air Transport Association). Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – Unece (United Nations Economic Commission for Europe).
OSHA Hazard Communication Standard	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
SARA Title III - Sections 311 / 312 (40 CFR 370 Subparts B and C)	Immediate (Acute) Health Hazard: Yes. Delayed (Chronic) Health Hazard: No. Fire Hazard: No. Sudden Release of Pressure Hazard: No. Reactive Hazard: No.
SARA Title III - Section 313 (40 CFR 372.65)	This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.
SARA Title III - Section 302 (40 CFR 355 Appendix A)	Ethylene oxide (CAS 75-21-8): 1 ppm. TPQ: 1000 lbs.
CERCLA (40 CFR 302.4) / SARA 304	1,4-Dioxane (CAS 123-91-1): 10 ppm. RQ: 100 lbs. Ethylene oxide (CAS 75-21-8): 1 ppm. RQ 10 lbs. Reportable Quantity (RQ) of this product is 10000000 pounds based upon 1,4-Dioxane / Ethylene oxide which yielded the lowest resultant RQ according to the following formula: CERCLA ingredient RQ/ % of that ingredient in the product.
New Jersey Hazardous Substance List	1,4-Dioxane: Substance# 0789 ((Special Health Hazard Code: CA – Carcinogen; F3 – Flammable 3rd degree). Ethylene oxide: Substance# 0882 (Special Health Hazard Code: CA – Carcinogen; MU – Mutagen; TE – Teratogen; F4 – Flammable 4th degree; R3 – Reactive 3rd degree).
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)	WARNING! This product contains a chemical known to the State of California to cause cancer. - 1,4-Dioxane. - Ethylene oxide. WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. - Ethylene oxide.
Pennsylvania Hazardous Substance List	1,4-Dioxane (CAS 123-91-1) and Ethylene oxide (CAS 75-21-8): Listed also as an environmental hazard and as a special hazardous substance.

Inventory Status

United States & Puerto Rico – Toxic Substances Control Act (TSCA) Inventory: Yes
Canada – Domestic Substances List (DSL): Yes
Canada – Non-Domestic Substances List (NDSL): No
Europe – European Inventory of Existing Commercial Chemical Substances (EINECS): No
Europe – European List of Notified Chemical Substances (ELINCS): No
Australia – Australian Inventory of Chemical Substances (AICS): Yes
Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes
Japan – Inventory of Existing and New Chemical Substances (ENCS): Yes
Korea – Existing Chemicals List (ECL): Yes
China – Inventory of Existing Chemical Substances in China (IECSC): Yes
New Zealand – New Zealand Inventory: Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

Remarks

Not applicable.

Sources

European Chemicals Bureau - http://ecb.jrc.it
LOLI - ChemADVISOR's Regulatory Database.
2013 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH.
2013 Guide to Occupational Exposure Values – ACGIH.
eChemPortal - The Global Portal to Information on Chemical Substances.
OECD - Ecological Categorization Results from the Canadian Domestic Substance List.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists (USA).
ADR: European agreement concerning the international carriage of dangerous goods by road.
CAS: Chemical Abstracts Service (American Chemical Society - EUA).
EC50: Average concentration for 50% of maximum response.
LC: Lethal Concentration - substance concentration in the environment that leads to death after a certain period of exposure.
LC50: Lethal concentration for 50% of the test animals.
BOD: Biochemical Oxygen Demand.
LD50: Lethal Dose for 50% of the test animals.
LDLo: Lethal Dose Low - minimal amount of a chemical lethal to animals in testing.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods by Regulations by the IATA
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO.
IMDG: International Maritime Code for Dangerous Goods.
IDLH - Immediately Dangerous To Life or Health Concentrations.
Kow: Octanol/water partition coefficient.
LT (NR 15): Exposure limits of the standard number 15 - Unhealthy Operations and Activities from the Ministry of Labour and Employment of Brazil.
LOAEL: Lowest Adverse Effect Level
LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database
NLP: No Longer Polymers.
NIOSH: National Institute for Occupational Safety and Health.
NOAEL: No Observed Adverse Effect Level
NTP: National Toxicology Program.
OSHA: Occupational Safety and Health Administration (EUA).
PEL-TWA: Exposure Limit Allowed – time-weighted average.
RID: Regulations concerning the international transport of dangerous goods by rail.
TLV-STEL: Tolerance Limit - short period of time (15 minutes, maximum).
TLV-TWA: Tolerance Limit – time weighted average.
WGK: Wassergefährdungsklasse (Germany) - Water Hazard Class.

This Safety Data Sheet was authoring according to our current knowledge and experience, however cannot imply guarantee of any nature. Considering the variety of factors that can affect their process or application, the information on this sheet does not exempt the processors from the responsibility of executing their own tests and experiments.