

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/09/2015 Revision date: 12/12/2016 Version: 2.0

# **SECTION 1: Identification**

1.1. Identification

: Mixtures Product form

Product name : Super Tank Zyme Z21

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Dispersant

Neutralizer

1.3. Details of the supplier of the safety data sheet

United Laboratories International, LLC.

12600 North Featherwood

Suite 330

Houston, TX 77034 - United States of America

T (877) 332-6648 / (281) 443-0300 - F (713) 672-3988

**Emergency telephone number** 

Emergency number : 281-481-3919 (Monday-Friday 8a-5p CT)

# SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture 2.1.

#### **GHS-US** classification

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2

Full text of H statements: see section 16

#### 2.2. Label elements

#### **GHS-US labelling**

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

: H315 - Causes skin irritation Hazard statements (GHS-US)

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling

P280 - Wear eye protection, protective gloves P302+P352 - If on skin: Wash with plenty of water

P305+P351+P338 - If in eves: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see First aid measures on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

#### 2.3. Other hazards

No additional information available

#### Unknown acute toxicity (GHS US) 2.4.

2% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

20% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

20% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### **Mixtures** 3.2.

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Name	Product identifier	%	GHS-US classification
Amine oxide	(CAS No) trade secret	15 – 20	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400
borax	(CAS No) trade secret	0.1 – 0.3	Repr. 1B, H360 STOT RE 2, H373

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Diarrhea. Nausea. Vomiting.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No particular fire or explosion hazard.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.

Emergency procedures : Stop leak without risks if possible.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

#### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible products : Nitrosating agents.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area. Protect from freezing.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Amine oxide (trade secret)		
Not applicable	Not applicable	
borax (trade secret)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
ACGIH	ACGIH STEL (mg/m³)	6 mg/m³
ACGIH	Remark (ACGIH)	Varies URT irr
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m <sup>3</sup> 8 hours
NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³ 10 hours

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure. Hand protection : Use rubber gloves. EN374.

Eye protection : Chemical goggles or safety glasses. EN166.

Skin and body protection : Wear suitable protective clothing. Foot protection. Lab coat. Rubber Apron.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. NIOSH. Approved respirator. EN

12083.

Environmental exposure controls : Prevent leakage or spillage.

Other information : Do not eat, drink or smoke when using this product.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : light green
Odour : Cinnamon
Odour threshold : No data available

pH : 7.5

Melting point : No data available Freezing point : No data available

Boiling point : 100 °C

Flash point : No data available
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : 0.981

Density : 8.18 lb/gal

Solubility : No data available

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Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **Explosive limits** : No data available Explosive properties : No data available Oxidising properties : No data available

9.2. Other information

VOC content : 0 %

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No dangerous reactions known.

# 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat.

# 10.5. Incompatible materials

Nitrosating agents.

# 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen oxides.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

Amine oxide (trade secret)	
LD50 oral rat	> 2000 mg/kg
borax (trade secret)	
LD50 oral rat	3450 mg/kg male
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.03 mg/l 5h
ATE US (oral)	3450.000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

borax (trade secret)	
LOAEL (oral, rat, 90 days)	58.5 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	17.5 mg/kg bodyweight/day
A 1 d 1	N

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

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Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.
Symptoms/injuries after ingestion : Diarrhea. Nausea. Vomiting.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : Toxic to aquatic life.

borax (trade secret)	
LC50 fish 1	74 mg/l 96h Limanda limanda

#### 12.2. Persistence and degradability

Super Tank Zyme Z21	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Super Tank Zyme Z21	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

Super Tank Zyme Z21	
Ecology - soil	Not established.

#### 12.5. Other adverse effects

Other information : No additional information available.

#### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Recycle product or dispose safely.

# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

Not regulated.

#### Transport by sea

Not regulated.

#### Air transport

Not regulated.

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### **CANADA**

### Amine oxide (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### borax (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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#### **EU-Regulations**

#### Amine oxide (trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### borax (trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### Amine oxide (trade secret)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### borax (trade secret)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on Taiwan National Chemical Inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# **SECTION 16: Other information**

Revision date : 12/12/2016

Data sources : ACGIH (American Conference of Government Industrial Hygienists).

European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <a href="http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database">http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</a>.

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing",

Fifth Edition.

National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th

edition.

NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Other information : None

#### Full text of H-statements:

 at of 11 statements.		
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H360	May damage fertility or the unborn child	
H373	May cause damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	

Abbreviations and acronyms:

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	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CFR: Code of Federal Regulations
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
	STEL: Short Term Exposure Limits
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause

significant irritation.

NFPA fire hazard

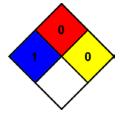
: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



Indication of changes:

Composition/information on ingredients.

**SDS Prepared by:** The Redstone Group, LLC.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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