

Safety Data Sheet

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

Date of issue: 11/13/2017

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Zyme-LF Z68

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

1.4. Emergency telephone number

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

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319

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

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

H319 - Causes serious eye irritation.

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

P280 - Wear eye protection, protective gloves.

P302+P352 - If on skin: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: 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

2.4. Unknown acute toxicity (GHS US)

0.45% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

0.45% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

0.45% 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

3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
Amine oxide	(CAS-No.) trade secret	5 – 15	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400

^{*}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. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of 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 unless directed to do so by medical personnel.

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

Symptoms/effects after skin contact : Causes skin irritation.

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

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

Treat symptomatically and supportively.

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 : Not flammable.

Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

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 : Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Liquid. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Do not allow minor leaks or spills to accumulate on walking surfaces.

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 : Ensure good ventilation of the work station.

Hygiene measures : Always wash your hands immediately after handling this product, and once again before

leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep only in original container.

Incompatible products : Oxidizing agent.

Prohibitions on mixed storage : Incompatible materials.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Amine oxide (trade secret)

Not applicable

8.2. Exposure controls

Appropriate engineering controls : Avoid splashing. Ensure good ventilation of the work station. Eyewash stations.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing. Long sleeved protective clothing.

Respiratory protection : None under normal use.

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 : Green
Odour : Cinnamon
Odour threshold : No data available

pH : 7.2 (1% application strength)

Melting point : No data available

Freezing point : $0 \, ^{\circ}\text{C}$ Boiling point : $100 \, ^{\circ}\text{C}$ Flash point : $> 93 \, ^{\circ}\text{C}$

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 : 1

Solubility : Soluble in water.

Water: 100 %

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 : No data available Explosive properties : No data available Oxidising properties

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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.

Conditions to avoid 10.4.

None known.

10.5. Incompatible materials

Oxidizer.

10.6. Hazardous decomposition products

Thermal decomposition generates: 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
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Cerm cell mutagenicity	· Not classified

Germ cell mutagenicity Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes serious eye irritation.

Other information : Likely routes of exposure: inhalation, skin and eye.

SECTION 12: Ecological information

12.1. **Toxicity**

: Harmful to aquatic life. Ecology - general

12.2. Persistence and degradability

Zyme-LF Z68	
Persistence and degradability	Readily biodegradable.

12.3. **Bioaccumulative potential**

Zyme-LF Z68	
Bioaccumulative potential	Not established.

Mobility in soil 12.4.

Zyme-LF Z68	
Ecology - soil	No additional information available.

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12.5. Other adverse effects

Other information : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Amine oxide (trade secret)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Amine oxide (trade secret)

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

EU-Regulations

Amine oxide (trade secret)

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

National regulations

Zyme-LF Z68

No additional information available

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)

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

Data sources

: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. 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.

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Other information : None.

Full text of H-statements:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

Abbreviations and acronyms:

	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. : 0 - Normally stable, even under fire exposure conditions, NFPA reactivity and not reactive with water.

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

: 0 Minimal Hazard - Materials that will not burn Flammability

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

B - Safety glasses, Gloves

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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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