



**INNOVATIVE
CHEMICAL
CORPORATION**

7769 95th Street South
Cottage Grove, MN 55016

SAFETY DATA SHEET

Revision Date: 6/2/2015

Emergency Phone: 1-800-535-5053 (Infotrac)

Section 1: Identification

Product Name: Zap

Code: 98PZA00

Chemical Type: Liquid

Manufacturer/Supplier:

Innovative Chemical Corporation
7769 95th Street South
Cottage Grove, MN 55016
651-649-1762

Section 2: Hazard(s) Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture:

Not classified

Label elements

Signal word: Danger, Warning

Hazard statements: May be harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation

May cause drowsiness or dizziness



Precautionary Statements

Prevention

Do not breathe dust/flame/gas/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

Response

Specific Treatment (See Section 4 on the SDS)

IF IN 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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: 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. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Storage

Store locked up. Store in a well ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity. 0.26298001% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: Composition/Information on Ingredients

Substance or mixture: Mixture

Other means of identification: Not available.

Hazardous Components		
Chemical Name	%weight	CAS number
2-butoxyethanol	20-30%	111-76-2
Monoethanolamine	8-12%	141-43-5
Sodium Hydroxide	8-12%	1310-73-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational limits, if available are listed in Section 8.

Section 4: First-Aid Measures

Description of first aid measures

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.
Skin	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eyes	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye lid open while rinsing. Do not rub affected area.
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.

Indication of any immediate medical attention needed

Notes to Physician	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes.
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Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with rales, frothy sputum, and high pulse pressure. Treat symptomatically.

See toxicological information (Section 11)

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.
Special Firefighting procedures and hazards	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.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill	May be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Do not drain to sewer without dilution.
Large spill	Contain by diking or other methods. Hold for disposal or reuse.

Section 7: Handling and Storage

Conditions for safe storage, including any incompatibilities

Check daily for leaks from containers, vessels, pumps and piping. Have water hoses and acid convenient. Use only containers and equipment designed for alkali services. Product may be disposable in sewers if neutralized and if local regulations permit. Otherwise send to a licensed treatment facility. Rinse empty containers well before handling and disposal. Observe label precautions. In an enclosed area, ventilate in any suitable manner.

Section 8: Exposure Controls/Personal Protection

Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing
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	reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory	Ensure adequate ventilation, especially in confined areas. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Eyes/Face	Wear safety glasses with side shields (or goggles). Wear a face shield if splashing hazard exists.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Skin/Body	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Section 9: Physical and Chemical Properties

Physical state	Liquid
Color	Red
Odor	Low odor
Odor threshold	Not available
pH	12.5
Melting Point	Not available
Boiling Point	212°F
Flash Point	>140°F
Evaporation rate	<1
Flammability (solid, gas)	Not available
Lower and upper explosive (flammable) limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Complete
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	<25 cP @25°C

Section 10: Stability and Reactivity

Reactivity: No specific test data

Chemical stability: Stable

Possibility of 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.

Section 11: Toxicological Information

Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LD50 Oral	Rat	470 mg/kg	-
	LD50 Dermal	Rabbit	99 mg/kg	-
	LC50 Inhalation	Rat	4hrs 450 ppm	-

Monoethanolamine	LD50 Oral	Rat	1720 mg/kg	-
	LD50 Dermal	Rabbit	1 mL/kg	-
			1000 mg/kg	

Irritation/Corrosion

Not available

Sensitization

Not available

Mutagenicity

Not available

Carcinogenicity

2-butoxyethanol= A3(Animal Carcinogen) by the American Conference of Governmental Industrial Hygienists),
Group 3(Not classifiable as a human carcinogen) by the International Agency for Research on Cancer

Reproductive toxicity

Not available

Teratogenicity

Not available

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available

Information on the likely routes of exposure

Routes of entry anticipated: Skin, eyes, inhalation, ingestion.

Routes of entry not anticipated: not available.

Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
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Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

Delayed and immediate effects and chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure: Not available.

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects

Not available

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

0.26298001% of the mixture consists of ingredient(s) of unknown toxicity.

Section 12: Ecological information

Toxicity

Product/ingredient name	Algae/aquatic plants	Fish	Crustacea
2-butoxyethanol	-	macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 -1940: 24 h Daphnia magna mg/L EC50
Monoethanolamine	15: 72h Desmodesmus subspicatus mg/L EC50	227: 96h Pimephales promelas mg/L LC50 flow-through 3684: 96h Brachydanio rerio mg/L LC50 static 300-1000: 96h Lepomis macrochirus mg/L LC50 static 114-196: 96h Oncorhynchus mykiss mg/L LC50 static 200: 96h Oncorhynchus mykiss mg/L LC50 flow-through	65: 48h Daphnia magna mg/L EC50
Tetrasodium EDTA	1.01: 72h Desmodesmus subspicatus mg/L EC50	41: 96h Lepomis macrochirus mg/L LC50 static 59.8: 96h Pimephales promelas mg/L LC50 static	610: 24h Daphnia magna mg/L EC50
Diethanolamine	7.8: 72h Desmodesmus	4460-4980: 96h Pimephales promelas	55: 48h Daphnia

	subspicatus mg/L EC50 2.1-2.3: 96h Pseudokirchneriella subcapitata mg/L EC50	mg/L LC50 flow-through 1200-1580: 96h Pimephales promelas mg/L LC50 static 600-1000: 96h Lepomis macrochirus mg/L LC50 static	magna mg/L EC50
Trisodium nitrilotriacetate	560-1000: 96h Chlorella vulgaris mg/L EC50	93-170: 96h Pimephales promelas mg/L LC50 flow-through 560-1000: 96h Oryzias latipes mg/L LC50 static 560-1000: 96h Poecilia reticulata mg/L LC50 114: 96h Pimephales promelas mg/L LC50 175-225: 96h Lepomis macrochirus mg/L LC50 static 252: 96h Lepomis macrochirus mg/L LC50 470: 96h Pimephales promelas mg/L LC50 static 560-1000 96h Oryzias latipes mg/L LC50	560-1000: 48h Daphnia magna mg/L LC50

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	Partition coefficient
2-butoxyethanol	0.81
Monoethanolamine	-1.91

Other adverse effects: No information available.

Section 13: Disposal considerations

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Do not reuse container.

Section 14: Transport information

Regulatory info	UN number	Proper shipping name	Classes	PG	Special Provisions	Additional info
DOT Classification	UN1760	Corrosive liquids, n.o.s.	8	II	B2, IB2, T11, TP2, TP27	-
TDG Classification	UN1760	Corrosive liquids, n.o.s.	8	II	-	-

Section 15: Regulatory information

U.S. Federal regulations	TSCA : Complies DSL/NDL : Complies
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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical(s) which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312

Acute health hazard: Yes

Chronic health hazard: Yes

Fire hazard: No

Sudden release of pressure hazard: No

Reactive hazard: No

CWA (Clean Water Act)

This product contains the no substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

State regulations

California Proposition 65: This product contains Diethanolamine which is a Carcinogen.

Massachusetts: This product contains 2-butoxyethanol, Monoethanolamine, Sodium Sulfate, Diethanolamine, Sodium Hydroxide and Trisodium nitrilotriacetate.

New Jersey: This product contains 2-butoxyethanol, Monoethanolamine, Diethanolamine and Sodium Hydroxide.

Pennsylvania: This product contains 2-butoxyethanol, Monoethanolamine, Sodium Sulfate, and Diethanolamine.

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

Section 16: Other information

Hazardous Material Information System (U.S.A.):

Health	3
Flammability	2
Physical hazards	0

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The customer is responsible for determining the PPE code for this material.

National Fire Protection Association:



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Procedure used to derive the classification

Classification	Justification
Not classified.	

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist