





# Safety Data Sheet - GHS

## StaZero 200

Date of Revision: June 19, 2019

P362 + P364	Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	
P403 + P233	Store in well-ventilated place. Keep container tightly closed.
P405	Store locked up.
<b>Disposal</b>	
P501	Dispose of contents/container to an approved waste disposal unit.

<b>GHS Classification</b>	Acute Toxicity (oral) (Category 4) Acute Toxicity (dermal) (Category 4) Acute Toxicity (inhalation - vapour) (Category 4) Skin corrosion/irritation (Category 1B) Serious eye damage/eye irritation (Category 2B) Specific target organ toxicity - single exposure (irritating to respiratory system) (Category 3) Hazardous to the aquatic environment - chronic (Category 3)
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<b>HMIS Classification</b>	
Health Hazard	2
Chronic Health Hazard	*
Flammability	0
Physical Hazards	0

<b>Potential Health Effects</b>	
Inhalation	Harmful if inhaled.
Skin	Causes severe skin burns.
Eye	Causes serious eye damage.
Ingestion	Harmful if swallowed.

### Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Monoethanolamine	2-aminoethanol, MEA, ethanolamine	30 – 60%	141-43-5
Water	H <sub>2</sub> O, Aqua	30 – 50%	7732-15-5
Ethoxylated Alcohol	Not Available	10 – 20%	68439-46-3
Proprietary Component*	EHS	Proprietary (10 – 15%)	Proprietary

\*HMIRA RN: 11216 Claim Filed April 18, 2017

### Section 4 - First Aid Measures

<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove contact lenses. Continue to rinse for at least 30 minutes. Get medical attention.

<b>Skin Contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.
<b>Most Important Symptoms/Effects both Acute and Delayed</b>	Harmful if swallowed. May cause damage to the kidneys if swallowed. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause slight eye and skin irritation. Symptoms include: Redness, swelling, itching and dryness. Suspected of damaging the unborn child.
<b>Note to Physician</b>	Treat symptomatically

### Section 5 – Fire-Fighting Measures

<b>Flash Point (°C)</b>	Non-flammable
<b>Flash Point Method</b>	PMCC
<b>Auto Ignition Temperature</b>	Not applicable
<b>Conditions of Flammability</b>	Non-flammable
<b>Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	No data available
<b>Unusual Fire/Explosion Hazard</b>	No data available.
<b>Hazardous Combustion Products</b>	Carbon oxides. Nitrogen oxides.
<b>Fire Fighting Equipment</b>	Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
<b>Special Precautions for Firefighters</b>	No data available.

### Section 6 – Accidental Release Measures

<b>Personal precautions</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapour can accumulate in low areas.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods and materials for containment and cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.



<b>Appearance &amp; Odour</b>	Clear, colourless to pale amber. Mild odour.	<b>Boiling Point</b>	>100°C
<b>Vapour Pressure</b>	0.1 kPa (20.0°C) (MEA)	<b>Boiling Point Range</b>	100 – 115°C
<b>Vapour Density</b>	2.1 (Air = 1) (MEA)	<b>Melting Point</b>	-20°C
<b>Specific Gravity</b>	1.12-1.16	<b>Freezing Point</b>	-20°C
<b>Partition coefficient (n-octonal/water)</b>	Not available	<b>Lower Explosive Limit (LEL)</b>	Not available
<b>pH</b>	10.4 – 11.0 (5% solution in water)	<b>Upper Explosive Limit (UEL)</b>	Not available
<b>Flashpoint (Method)</b>	Not Flammable	<b>Auto Ignition temperature</b>	Not available
<b>Odour Threshold</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Flammability (Solid, Gas)</b>	Not available	<b>Viscosity</b>	Not available
<b>Decomposition Temperature</b>	Not available		

### Section 10 – Stability and Reactivity

<b>Reactivity</b>	No specific test data related to reactivity available for this product.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur
<b>Conditions to avoid</b>	Not available.
<b>Materials to avoid</b>	Strong acids. Strong oxidizers.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides, nitrous gases. Other decomposition products – this is not a self-decomposable substance.

### Section 11- Toxicological Information

#### Information on Likely Routes of Exposure

<b>Inhalation</b>	Causes respiratory tract irritation.
<b>Skin contact</b>	Harmful in contact with skin. Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Harmful if swallowed.
<b>Acute and Chronic Toxicity</b>	No data available.

#### Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Ethoxylated Alcohol	LD50 Oral	Rat	>2000mg/kg	-
Monoethanolamine	LC50 Inhalation gas	Mouse	>1210mg/L	4 Hr
	LD50 Oral	Rat	1720mg/kg	-
	LD50 Dermal	Rabbit	1000mg/kg	-

<b>Skin corrosion/irritation</b>	Causes burns.
<b>Serious eye damage/ Eye irritation</b>	Causes serious damage to eyes.

<b>Respiratory or skin sensitization</b>	No data available.
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<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
<b>Reproductive toxicity</b>	Limited data from animal studies does not indicate that MEA is a reproductive toxin.
<b>Teratogenicity</b>	Limited data from animal studies does not indicate that MEA is a developmental toxin.
<b>Specific target organ toxicity - single exposure (Globally Harmonized System)</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure (Globally Harmonized System)</b>	Causes respiratory irritation.
<b>Aspiration hazard</b>	No data available.
<b>Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure</b>	
<b>Short Term Exposure</b>	
<b>Potential immediate Health Effects</b>	No data available.
<b>Potential Delayed Health Effects</b>	No data available.
<b>Long Term Exposure</b>	
<b>Potential immediate Health Effects</b>	No data available.
<b>Potential Delayed Health Effects</b>	No data available.
<b>Potential Chronic Effects</b>	No data available.
<b>Synergistic effects</b>	No data available

## Section 12 – Ecological Information

### Toxicity

Product / Ingredient Name	Result	Species	Exposure
Ethoxylated Alcohol	No data available		
Monoethanolamine	Acute LC50 3684mg/L	Fish - Brachydanio rerio	96 Hr
	Acute LC50 227mg/L	Fish – Pimephales promelas	96 Hr
	Acute EC50 65mg/L	Daphnia – Daphnia magna	48 Hr
<b>Persistence and degradability</b>	Material is readily biodegradable (Monoethanolamine, Ethoxylated Alcohol) Passes OECD Test(s) for ready biodegradability		
<b>Bioaccumulative potential</b>	No data available.		
<b>Mobility in soil</b>	No data available		
<b>PBT and vPvB assessment</b>	No data available		

## Section 13 – Disposal Considerations

### Product

Do not discharge substance/product into sewer system. Dispose of in accordance with national, regional, and local regulations.

**Contaminated packaging**

Dispose of as unused product in a licensed facility. Recommend crushing, puncturing, or other means to prevent unauthorized use of used containers. Do not cut, weld, or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled materials and runoff and contain with soil, waterways, drains, and sewers.

**Section 14 - Transportation Information**

CANADA Transportation of Dangerous Goods (TDG)

<b>Shipping Name</b>	UN2491, ETHANOLAMINE SOLUTION, 8. PG III
<b>Class</b>	8
<b>UN Number</b>	UN2491
<b>Packaging Group:</b>	III
<b>Environmental hazards</b>	No data available
<b>Transportation in bulk, if applicable</b>	No data available
<b>Special Precautions</b>	No data available

**Section 15 – Regulatory Information****DSL (Canadian Domestic Substances List)  
and CEPA (Canadian Environmental Protection Act)**

All components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

**TSCA Inventory (8b)**

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

**Section 16 – Other Information****REVISION SUMMARY:**

Date of Preparation	April 1, 2017
Date of Revision	June 19, 2019

SDS Prepared by: CFR Lab Manager

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