

StaZero 200

Date of Revision: March 15, 2022

Section 1 - Chemical Product and Company Identification

Product Name StaZero 200
Synonyms Not applicable

Product Use LEL Reducer and H₂S Scavenger

Restrictions On Use Not Applicable Supplier CFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

General Assistance 1 (877) 269-3419

Emergency Telephone 613-966-6666 (CANUTEC 24 Hour Phone Number)

Date of Preparation of SDS April 1, 2017

Section 2 – Hazard Identification

Signal Word GHS Pictogram(s)

WARNING



Hazard	Statement	
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H302 +H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage.

H320 Causes eye irritation. H332 Harmful if inhaled.

H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement

P260 Do not breathe dust/gas/mist/vapours.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Response

P321 Specific Treatment: See Response Statements on this label

P310 Immediately call a POISON CENTER or doctor.

P303 + P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with

plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P337 + P313 If eye irritation persists: Get medical advice / attention.



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P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233 Store in well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal unit.

GHS Classification 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)

HMIS Classification

Health Hazard 2
Chronic Health Hazard *
Flammability 0
Physical Hazards 0

Potential Health Effects

Inhalation Harmful if inhaled.

SkinCauses severe skin burns.EyeCauses serious eye damage.IngestionHarmful 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	H2O, 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

Inhalation Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration. Get medical attention.

Eye Contact 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.



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Skin Contact 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.

Ingestion 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.

Most Important Symptoms/Effects both Acute and Delayed

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

and dryness. Suspected of damaging the unborn child.

Note to Physician Treat symptomatically

Section 5 – Fire-Fighting Measures

Flash Point (°C) Non-flammable

Flash Point Method PMCC

Auto Ignition Temperature Not applicable Conditions of Flammability Non-flammable

Extinguishing Media

Unsuitable Extinguishing

Media No data available

Unusual Fire/

Explosion Hazard No data available.

Hazardous Combustion

Products Carbon oxides. Nitrogen oxides.

Fire Fighting Equipment Wear appropriate protective equipment and self-contained breathing apparatus

with a full face-piece operated in positive pressure mode.

Special Precautions for

Firefighters No data available.

Section 6 – Accidental Release Measures

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.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided.

Methods and materials for

containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in

suitable, closed containers for disposal.



Safety Data Sheet - GHS StaZero 200

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Section 7 – Handling and Storage

Precautions for safe handling Conditions for safe storage

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Store in cool, dry well ventilated area. Sensitive to light. Store in light-resistant

containers. Hygroscopic material. Segregate from acids and acid forming

substances.

Suitable material for containers: Carbon Steel (Iron), Stainless steel 1.4401,

Stainless steel 1.4301, High-density polyethylene (HDPE), glass.

Incompatible Materials

Strong acids. Strong oxidizers.

Exposure Limits

Section 8 - Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name

Monoethanolamine Canada, Alberta OHSC Code

OEL: 3ppm 8 Hours OEL: 7.5mg/m³ 8 Hours Ceiling: 6ppm 15 min Ceiling: 15mg/m³ 15 min

Ethoxylated Alcohol None Established

Personal protective equipment

Eye/face protection Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals. If contact is possible, the following protection should be worn: Splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this

is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If inhalation hazards exist, a full-face respiratory may be required instead.

Wear chemical resistant gloves, impermeable protective clothing and safety shoes. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection Use a properly fitted, air-purifying or supplied air respirator complying with an

approved standard if a risk assessment indicates this is necessary.

General hygiene

Skin protection

Considerations Handle in accordance with good industrial hygiene and safety. Eye wash fountains

and safety showers must be easily accessible.

Specific engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust

ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof

ventilation equipment.

Section 9 – Physical and Chemical Properties

Physical State Liquid Water Solubility miscible



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

Section 10 – Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur

Conditions to avoid Not available.

Materials to avoid Strong acids. Strong oxidizers.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon

oxides, nitrogen oxides, nitrous gases.

Other decomposition products – this is not a self-decompositionable substance.

Section 11- Toxicological Information

Information on Likely Routes of Exposure

Inhalation Causes respiratory tract irritation.

Skin contact Harmful in contact with skin. Causes skin irritation.

Eye contactCauses serious eye damage.IngestionHarmful if swallowed.Acute and Chronic ToxicityNo data available.

Acute toxicity

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

Skin corrosion/irritation Causes burns.

Serious eye damage/ Eye irritation

Causes serious damage to eyes.

Respiratory or skin sensitization

No data available.



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Mutagenicity No known significant effects or critical hazards.

Carcinogenicity

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.

Reproductive toxicity Limited data from animal studies does not indicate that MEA is a reproductive

toxin.

Teratogenicity Limited data from animal studies does not indicate that MEA is a developmental

toxin.

Specific target organ toxicity - single exposure (Globally Harmonized System)

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Causes respiratory irritation.

Aspiration hazard No data available.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential immediate Health Effects

No data available.

Potential Delayed Health Effects

No data available.

Long Term Exposure

Potential immediate Health Effects
Potential Delayed Health Effects
No data available.
Potential Chronic Effects
No data available.
No data available.

Synergistic effects No data available

Section 12 - Ecological Information

Toxicity

Product / Ingredient N	lame	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

Persistence and degradability Material is readily biodegradable (Monoethanolamine, Ethoxylated Alcohol)

Passes OECD Test(s) for ready biodegradability

Bioaccumulative potentialNo data available.Mobility in soilNo data availablePBT and vPvB assessmentNo data available

Section 13 – Disposal Considerations

Product



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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)

Shipping Name UN2491, ETHANOLAMINE SOLUTION, 8. PG III

Class 8

UN Number UN2491 Packaging Group:

Environmental hazards No data available

Transportation in bulk,

if applicableNo data availableSpecial PrecautionsNo 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 March 15, 2022

SDS Prepared by: CFR Lab Manager

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