

Section 1 - Chemical Product and Company Identification

Product Name	StaSafe 172
Synonyms	Not applicable
Product Use	LEL Reducer, Industrial Product
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	Not Dangerous Goods – Call General Assistance
Date of Preparation of SDS	April 1, 2017

Section 2 – Hazard Identification

Signal Word WARNING
GHS Pictogram(s)



Hazard Statement:

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)
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HMIS Classification	
Health Hazard	1
Chronic Health Hazard	*
Flammability	0
Physical Hazards	0

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Water	H ₂ O, Aqua	70 – 75%	7732-15-5
Ethoxylated Alcohol	Not Available	14 – 18%	68439-46-3
Sodium ethylhexyl sulfate	EHS	3 – 5%	126-92-1
This product may contain			
Monoethanolamine	2-aminoethanol, MEA, ethanolamine	0 – 1%	141-43-5

* = Various ** = Mixture *** = Proprietary

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

Personal precautions	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.
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.

Section 7 – Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage 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.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name	Exposure Limits
Ethoxylated Alcohol	None Established
Sodium ethylhexyl sulfate	None Established
Monoethanolamine	ACGIH TLV TLV: 3ppm 8 Hours TLV 7.5mg/m ³ 8 Hours OSHA PEL TWA: 3ppm 8 hours TWA: 6mg/m ³ 8 Hours

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.

Skin protection 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 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
Appearance & Odour	Clear, colourless to pale amber. Mild odour.	Boiling Point	>100°C
Vapour Pressure	Not available	Boiling Point Range	Not applicable

Vapour Density	Not available	Melting Point	0°C
Specific Gravity	1.04 – 1.06	Freezing Point	0°C
Partition coefficient (n-octonal/water)	Not available	Lower Explosive Limit (LEL)	Not available
pH	9.7 (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.
Chemical stability	Stable under recommended storage conditions.
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.
Hazardous decomposition products	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

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

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Ethoxylated Alcohol	LD50 Oral	Rat	>2000mg/kg	-
Sodium ethylhexyl sulfate	LD50 Oral	Rat	11000mg/kg	-
Monoethanolamine	LC50 Inhalation gas	Mouse	>1210mg/L	4 Hr
	LD50 Oral	Rat	1720mg/kg	-
	LD50 Dermal	Rabbit	1000mg/kg	-

Skin corrosion/irritation Causes burns.

Serious eye damage/ Eye irritation

Causes serious damage to eyes.

Respiratory or skin sensitization

No data available.

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.



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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	No data available.
Potential Delayed Health Effects	No data available.
Potential Chronic Effects	No data available.
Synergistic effects	No data available

Section 12 – Ecological Information

Toxicity

Product / Ingredient Name	Result	Species	Exposure
Ethoxylated Alcohol	No data available		
Sodium ethylhexyl sulfate	Acute EC50 4350mg/L	Daphnia – Daphnia magna	24 Hr
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, Sodium ethylhexyl sulfate, Ethoxylated Alcohol) Passes OECD Test(s) for ready biodegradability
Bioaccumulative potential	No data available.
Mobility in soil	No data available
PBT and vPvB assessment	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)

Not Dangerous Goods

Environmental hazards Not a marine pollutant.

**Transportation in bulk,
if applicable** No data available

Special Precautions 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:

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SDS Prepared by: CFR Lab Manager

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