

## Section 1 - Chemical Product and Company Identification

<b>Product Name</b>	StaClean 220 – System Flush
<b>Synonyms</b>	Not Applicable
<b>Product Use</b>	Degreaser & Industrial Cleaning Product
<b>Restriction on Use</b>	None identified
<b>Manufacturer/Supplier</b>	CFR Chemicals 38451 Range Road 22 County of Red Deer T4E 2N6
<b>General Assistance</b>	1 (877) 269-3419
<b>Emergency Telephone</b>	<b>613-966-6666 (CANUTEC 24 Hour Phone Number)</b>
<b>Date of Preparation of SDS</b>	April 1, 2017

## Section 2 – Hazard Identification

**Signal Word** Danger  
**GHS Pictogram(s)**



**Target Organs** Narcotic Effects

**Hazard Statement:**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long-lasting effects.

**Precautionary Statement**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.



P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
<b>Response</b>	
P321	Specific treatment: See Response Statements on this label.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P331 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P331	DO NOT induce vomiting.
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 before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish
P391	Collect spillage
<b>Storage</b>	
P403 + P233	Store in well-ventilated place. Keep container tightly closed.
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	
P501	Dispose of contents/container to an approved waste disposal unit.
<b>GHS Classification</b>	Flammable liquids (Category 3) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2A) Mutagenicity (Category 1B) Carcinogenicity (Category 1B) Reproductive Toxicity (Category 2) Specific target organ toxicity - single exposure (Category 3) Aspiration hazard (Category 1) Hazardous to the aquatic environment, acute hazard (Category 2) Hazardous to the aquatic environment, acute chronic (Category 2)
<b>HMIS Classification</b>	
Health Hazard	2
Chronic Health Hazard	*
Flammability	3
Physical Hazards	0
<b>Potential Health Effects</b>	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Causes skin irritation.



**Eye  
Ingestion**

Causes serious eye irritation.  
May be harmful if swallowed.

### Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Naptha, petroleum, heavy catalytic reformed**	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture	5 – 20%	64741-68-0
Isopropyl Alcohol	2-propanol; IPA; Isopropyl Alcohol; 1-methylethanol; 1-methylethyl alcohol; 2-hydroxypropane; i-propanol; propan-2-ol; sec-propanol.	1 – 5%	67-63-0
Terpene Hydrocarbon	Not Applicable	5 – 15%	5989-27-5
Ethoxylated Alcohol	Not Applicable	1 – 5%	68439-46-3
Formaldehyde, polymer with 4-nonylphenol and oxirane	Not Applicable	1 – 5%	30846-35-6

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

**Chemical Formula** Mixture

### Section 4 - First Aid Measures

<b>Inhalation</b>	Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that vas of vapour is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.
<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 10 minutes. Get medical attention.
<b>Skin Contact</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shows. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	Get medical attention immediately. Call a poison control centre or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

**Most Important Symptoms/Effects**

Acute No data available.  
Delayed No data available.

**Note to Physician** Treat symptomatically.

## Section 5 – Fire-Fighting Measures

**Flash Point (°C)** 39°C  
**Flash Point Method** PMCC  
**Auto Ignition Temperature** No data available. .  
**Conditions of Flammability** Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/ hot surface. No smoking.  
**Extinguishing Media** Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide  
**Unsuitable Extinguishing Media** Water streams.  
**Unusual Fire/**  
**Explosion Hazard** No data available.  
**Hazardous Combustion**  
**Products** Carbon oxides. May release flammable gases.  
**Special Protective Equipment and**  
**Precautions for Firefighters** Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

## 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. Vapours 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** Contain free liquid if possible. Pick up by covering with an activated carbon absorbent or other suitable inert absorbent material (e.g. sand, sawdust, general-purpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in accordance with local regulations.

## Section 7 – Handling and Storage

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.  
**Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place.  
**Incompatible Conditions** Heat, flames and sparks.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizers.

## Section 8 – Exposure Controls / Personal Protection

### Occupational Exposure Limits

**Ingredient Name**

**Exposure Limits**

Naptha, petroleum, heavy catalytic reformed\*\*

**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**  
Not Established

Isopropanol

**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**  
STEL: 400ppm  
TWA: 200ppm

Terpene Hydrocarbon

**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**  
TWA: 20ppm

Ethoxylated Alcohol

**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**  
Not Established

Formaldehyde, polymer with 4-nonylphenol and oxirane

**ACGIH TLV**  
TWA: 25ppm 8 Hours  
**OSHA PEL**  
TWA: 25ppm

**Personal 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.

**Skin protection**

Wear chemical resistant gloves, impermeable protective clothing and safety shoes.

**Respiratory protection**

Use NIOSH approved respirators and components.

**General hygiene**

**Considerations**

Handle in accordance with good industrial hygiene and safety.

**Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure. Safety shower, eye wash, and fire extinguisher should be present.

## Section 9 – Physical and Chemical Properties

**Physical State**

Liquid

**Water Solubility**

Forms emulsion

**Appearance & Odour**

Clear, straw to dark brown colour. Aromatic odour.

**Boiling Point**

> 100°C

**Vapour Pressure**

Not available

**Boiling Point Range**

Not available

**Vapour Density**

Not available

**Melting Point**

0°C

**Specific Gravity**

0.98

**Freezing Point**

0°C

**Partition coefficient (n-octonal/water)**

No data available

**Lower Explosive Limit (LEL)**

Not available

**pH**

No data available

**Upper Explosive Limit (UEL)**

Not available

**Flashpoint (Method)**

39°C (PMCC)

**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

<b>Reactivity</b>	Heating may cause fire.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Materials to avoid</b>	Strong acids. Strong bases. Strong oxidizers.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides. Other decomposition products - No data available

## Section 11- Toxicological Information

### Information on Likely Routes of Exposure

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	Causes skin irritation.
<b>Eye</b>	Causes serious eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Acute and Chronic Toxicity** No data available

### Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Naphtha, petroleum heavy catalytic reformed	LC50 Inhalation gas	Rat	>5.04mg/L	4 Hr
	LD50 Dermal	Rabbit	>2000mg/kg	24 Hr
	LC50 Inhalation gas	Rat	73mg/L	4 Hr
Isopropanol	LD50 Oral	Rat	5045mg/kg	-
	LD50 Dermal	Rabbit	12870mg/kg	-
Terpene Hydrocarbon	LD50 Oral	Rat	4400ppm	-
	LD50 Dermal	Rabbit	>5000mg/kg	-
Ethoxylated Alcohol	LD50 Oral	Rat	>2000mg/kg	-
Formaldehyde, polymer with 4-nonylphenol and oxirane	No data available			

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization** Not classified.

**Mutagenicity** May cause genetic defects.

**Carcinogenicity** May cause cancer.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure (Globally Harmonized System)** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)** Not assigned.

**Aspiration hazard** May be fatal if swallowed and enters airways.



**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
Naptha, petroleum heavy catalytic reformed	Acute EC50 – 11mg/L	Pseudokirchneriella subcaptata	72 Hr
Isopropanol	Acute LC50 9640mg/L	Fish – Pimephales promelas	96 Hr
	Acute EC50 5102mg/L	Daphnia – Daphnia magna	24 Hr
Terpene Hydrocarbon	No data available		
Ethoxylated Alcohol	No data available		
Formaldehyde, polymer with 4-nonylphenol and oxirane	No data available		

**Persistence and degradability**

Biodegradability May cause long-term adverse effects in the environment.

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**PBT and vPvB assessment** No data available

**Other adverse effects** None known.

**Section 13 – Disposal Considerations**

**Product** This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging** Dispose of as unused product.

**Section 14 - Transportation Information**

CANADA Transportation of Dangerous Goods (TDG)

**Shipping Name** UN1268, Petroleum Distillates, N.O.S., 3. PG III

**Class** 3

**UN Number** UN1268  
**Packaging Group:** III  
**Label**



**Reportable Quantity** 12345.7 lbs / 5604.9Kg [2177.5 gal / 8242.6L]  
Package sizes shipped in quantities less than the product reportable quantity are not subject to the RW transportation requirements.

**Environmental hazards** 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

Listed

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 May 29, 2019

SDS Prepared by: CFR Lab Manager

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