


Section 1 - Chemical Product and Company Identification

Product Name	StaClean FFC-3
Synonyms	Not applicable
Product Use	Fin Fan Cleaner, Industrial Cleaner, Degreaser
Restrictions on Use	None known
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 25, 2018

Section 2 – Hazard Identification

Signal Word	Danger
GHS Pictogram(s)	
Hazard Statement:	
H315	Causes skin irritation
H318	Causes serious eye damage
Precautionary Statement	
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
Response	
P321	Specific Treatment: See this label
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take of contaminated clothing and wash it before reuse.
Storage	No Statements
Disposal	No Statements
GHS Classification	Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 1)
Potential Health Effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Causes severe skin burns.
Eye	Causes eye irritation and damage.

Ingestion May be harmful if swallowed.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Water	H ₂ O, Aqua	70 – 80%	7732-15-5
Sodium metasilicate	Sodium silicate; Silicic acid, disodium salt	1 – 10%	6834-92-0
Diethylene Glycol Monobutyl Ether	Glycol Ether DB	5 – 10%	112-34-5
Dodecylbenzenesulphonic acid	Dodecylbenzene sulfonic acid, laurylbenzenesulfonic acid	1 – 5%	27176-87-0
Sodium gluconate	Not applicable	1 – 5%	527-07-1
Sodium Hydroxide	NaOH, Caustic Soda, Lye	0.5 – 2%	1310-73-2

* = 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 15 minutes. Get medical attention.
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	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 both Acute and Delayed	Not available
Note to Physician	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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 to fight surrounding fire.
Unsuitable Extinguishing Media	No data available
Unusual Fire/Explosion Hazard	No data available
Hazardous Combustion Products	No data available
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	Neutralize spill with sodium bicarbonate or lime. Absorb spill with non-combustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

Section 7 – Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Ground all equipment containing material.
Conditions for safe storage	Store in cool, dry well ventilated area. 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.
Materials to avoid	Strong acids.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits	Exposure Limits
Ingredient Name	Canada, Alberta OHSC Code
Sodium metasilicate, pentahydrate	None established

Diethylene Glycol Monobutyl Ether	Canada, Alberta OHSC Code None established ACGIH TLV TLV: 10ppm
Dodecylbenzenesulphonic acid	Canada, Alberta OHSC Code Not listed ACGIH TLV TLV: 200ppm
Sodium gluconate	Canada, Alberta OHSC Code None established
Sodium Hydroxide	Canada, Alberta OHSC Code Ceiling: 2mg/m ³

Personal protective equipment

Eye/face protection	Chemical safety glasses with side shields to prevent eye contact.
Skin protection	Wear chemical resistant gloves, impermeable protective clothing and safety shoes.
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	No special ventilation requirements.

Section 9 – Physical and Chemical Properties

Physical State	Liquid	Water Solubility	Soluble in water
Appearance & Odour	Clear, colourless to purple. Mild odour.	Boiling Point	Approx 100°C
Vapour Pressure	No data available	Boiling Point Range	Not applicable
Vapour Density	No data available	Melting Point	Approx -10°C
Specific Gravity	1.01 – 1.04	Freezing Point	Approx -10°C
Partition coefficient (n-octonal/water)	Not available	Lower Explosive Limit (LEL)	Not available
pH	14.0 (neat) 12.1 (5% 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, aluminum, zinc, Oxidizing materials.

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 No data available

Skin contact No data available

Eye contact No data available

Ingestion No data available

Acute and Chronic Toxicity
 No data available.

Acute toxicity

Product/Ingredient Name	Result	Species	Dose
Sodium metasilicate	LD50 Oral	Rat	1152 – 1349mg/kg
Diethylene Glycol Monobutyl Ether	LD50 Oral	Rat	6.6g/kg
Dodecylbenzenesulphonic acid	LD50 Oral	Rat	650mg/kg
Sodium gluconate	LD50 Oral	Rat	1288 mg/kg
Sodium Hydroxide	LD50 Oral	Rat	340mg/kg

Skin corrosion/irritation Causes skin burns.

Serious eye damage/ Eye irritation
 Causes eye damage and irritation.

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.

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 No data available

Teratogenicity No data available

Target Organ effects No data available.

Aspiration hazard No aspiration hazard expected.

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
Sodium metasilicate	Acute LC50 210mg/L	Fish – Danio rerio	96 Hr
Diethylene Glycol Monobutyl Ether	No data available		
Dodecylbenzenesulphonic acid	No data available		
Sodium gluconate	No data available		
Sodium Hydroxide	No data available		

Persistence and degradability No data available
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)

Shipping Name UN1760, Corrosive Liquid, N.O.S. (sodium metasilicate solution), 8. PG III
Class 8
UN Number UN1760
Packaging Group: III

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 25, 2018
Date of Revision	May 29, 2019

SDS Prepared by: CFR Lab Manager

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