



SECTION 1 – IDENTIFICATION

NAME: SUPERFLOW GREEN LIQUID

USE: Liquid soap for membranes

MANUFACTURER: **B.O.D. CHEMICALS INC.**
3300, Star Street, Saint-Hubert, Qc, Canada, J3Y 3W6
Phone : (450) 443-5556 / Fax : (450) 443-6230 / Email : info@chimiquesbod.com

EMERGENCY PHONE: CANUTEC (Canada): 1 (613) 996-6666
CHEMTREC (USA): 1 (800) 424-9300

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS Corrosive to metals, category 1

HEALTH HAZARDS Acute toxicity, oral, category 4
Skin corrosion/irritation, category 1
Serious eye damage/eye irritation - Serious eye damage, category 1
Carcinogenicity, category 2
Specific target organ toxicity – repeated exposure, category 2 - inhalation

ENVIRONMENTAL HAZARDS Not available

GHS LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: May be corrosive to metals.
Harmful if swallowed.
May be harmful if inhaled.
Causes severe skin burns and eye damage.
Suspected of causing cancer.
May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

PRECAUTIONARY STATEMENTS

PREVENTION: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe fume/gas/mist/vapours/spray.
Wash contaminated skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not eat, drink or smoke when using this product.
Do not mix with incompatible materials.

RESPONSE: IF exposed or concerned: Get medical advice/attention.
If swallowed : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
If on skin (or hair) : Take off immediately all contaminated clothing. Rinse skin with water for at least 20 minutes/shower.
If inhaled : Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention if you feel unwell.

If in eyes : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see supplemental first aid on the label).
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.

STORAGE / DISPOSAL: Store locked up.
Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS	% (W/W)
Ethylenediaminetetraaceticacid, tetrasodium	000064-02-8	10-30
Sodium hydroxide	001310-73-2	7-13
Caustic potash	001310-58-3	1-5

SECTION 4 – FIRST AID MEASURES

SKIN: Remove contaminated clothing. Rinse skin with water for at least 20 minutes/shower. Consult a physician if irritation persists.

EYES: Rinse cautiously with water for 15-20 minutes, keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

INGESTION: Rinse mouth. Do not induce vomiting. Drink 3 to 4 glasses of water or milk. Do not give anything by mouth if victim is unconscious. Call a physician immediately.

INHALATION: Breathe fresh air. Give artificial respiration if necessary. Consult a physician if discomforts persist.

TO PHYSICIAN: Treat symptoms

SECTION 5 – FIRE-FIGHTING MEASURES

FLAMMABLE: The product itself does not burn. May decompose upon heating to produce corrosive and/or toxic fumes. Contact with metal may release flammable hydrogen gas.

EXTINGUISHING MEDIA: For small fires, use media such as alcohol foam, dry chemical or, carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS: Toxic gases or vapours: Carbene monoxide (CO), Carbene dioxide (CO₂), Nitrogen oxides (NOx).

HAZARDOUS COMBUSTION PRODUCTS: Not available

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing and self- contained breathing apparatus if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Avoid contact of the product with eyes and skin. Do not breathe fume/gas/mist/vapours/spray. Wear gloves, safety goggles and respirator if needed. Prevent discharge in sewers.

ENVIRONMENTAL PRECAUTIONS: Avoid the spillage or runoff entering drains, sewers or watercourses.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Contain spilled material if possible. Absorb with inert materials. Collect in suitable and properly labeled containers. Rinse area with water.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact of the product with eyes and skin. Do not breathe mist/vapours/spray.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep containers closed, in fresh, dry and well ventilated area, away from acids, soft metals (Al, Zn, Sn).

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROL: Normal ventilation

PERSONAL PROTECTIVE EQUIPMENT



SKIN: Protective clothing. Impermeable gloves

EYES: Safety goggles

RESPIRATORY: If ventilation is inadequate, suitable respiratory protection must be worn.

HYGIENE MEASURES: Wash hands after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / FORM:	Liquid
COLOR:	Colorless
ODOR:	Odorless
ODOR THRESHOLD:	Not available
pH (solution 1%):	13 – 14
MELTING POINT / FREEZING POINT (°C):	< 0
BOILING POINT (°C):	> 100
FLASH POINT (°C):	Not applicable
EVAPORATION RATE:	Not available
EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
DENSITY (kg/L):	1.27 - 1.29
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT N-OCTANOL / WATER:	Not available
AUTOIGNITION TEMPERATURE (°C):	Not applicable
DECOMPOSITION TEMPERATURE:	Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	The following materials may react violently with the product: Acids. Reacts with water and organic materials with evolution of heat. Contact with metal may release flammable hydrogen gas.
CHEMICAL STABILITY:	Stable at normal ambient temperatures and when used as recommended.
HAZARDOUS REACTIONS:	Hazardous polymerisation does not occur.

CONDITIONS TO AVOID:	Contact with incompatible materials.
INCOMPATIBILITY:	Acids, soft metals (Al, Zn, Sn).
HAZARDOUS DECOMPOSITION PRODUCTS:	Under fire conditions: carbon oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN:	Corrosive. Causes severe skin burns.
EYES:	Corrosive. Causes severe eye burns. Causes serious eye damage.
INHALATION:	May cause an irritation.
INGESTION:	Corrosive. Causes digestive tract burns. Harmful if swallowed.
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:	Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE ORAL TOXICITY:	LD50 (oral, rat) : 1091 mg/kg
ACUTE DERMAL TOXICITY:	LD50 (dermal, rabbit) : > 2000 mg/kg
ACUTE INHALATION TOXICITY:	Not available
SKIN CORROSION / IRRITATION:	Causes severe skin burns.
SERIOUS EYE DAMAGE / EYE IRRITATION:	Causes severe eye burns. Causes serious eye damage.
RESPIRATORY SENSITIZATION:	Not expected to cause respiratory sensitization.
SKIN SENSITIZATION:	Not expected to cause skin sensitization.
GERMINAL CELL MUTAGENICITY:	No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.
CARCINOGENICITY:	Although large dietary doses of NTA have caused urinary tumors in laboratory animals, there is little likelihood that NTA could cause cancer in humans, especially at subtoxic doses. The trisodium salt of EDTA did not cause cancer in laboratory animals.
REPRODUCTIVE TOXICITY:	No relevant data found.
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE:	Not classified
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE:	For the minor component(s): In animals, effects have been reported on the following organs: Kidney. Urinary tract. Repeated excessive exposures may alter concentrations of metals in the body. In animals, has been shown to cause deposition of calcium salts in various urinary tract tissues. Based on information for a similar material: In animals, effects have been reported on the following organs: Respiratory tract.
ASPIRATION HAZARD:	Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	May cause shifts in water pH outside the range of pH 5 -10. This change may be toxic to aquatic organisms.
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PERSISTENCE AND DEGRADABILITY:	Ethylenediaminetetraaceticacid, tetrasodium: Low biodegradability Caustic soda: Inorganic substances are not biodegradable Expected to degrade rapidly in air. Caustic potash: Inorganic substances are not biodegradable
BIOACCUMULATIVE POTENTIAL:	Low or not expected.
MOBILITY IN SOIL:	No relevant data found.
OTHER ADVERSE EFFECTS:	Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain in sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
HAZARDOUS WASTE CODE:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
WASTE FROM RESIDUES / UNUSED PRODUCTS:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
CONTAMINATED PACKAGING:	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 – TRANSPORT INFORMATION

TDG / DOT:	UN1760, CORROSIVE LIQUID, N.O.S. (Sodium hydroxide), Class 8, PG II
ENVIRONMENTAL HAZARDS (MARINE POLLUTANT):	No
TRANSPORT IN BULK:	Not available
SPECIAL PRECAUTIONS FOR USER:	Read safety instructions, SDS and emergency procedures before handling.

SECTION 15 – REGULATORY INFORMATION

OSHA Hazard Communication Standard (ingredients). This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

International Inventories (ingredients), Canada Domestic Substances List (DSL) Yes

SECTION 16 – OTHER INFORMATION

PRODUCT NAME:	SUPERFLOW GREEN LIQUID
PREPARED BY:	B.O.D. CHEMICALS INC.
PHONE:	(450) 443-5556
DATE:	January 12th, 2017

B.O.D. CHEMICALS INC. assume no responsibility for damages or physical injuries resulting in the use of this product. The user recognizes the risk in the use of this product and must consult and respect directions and dangers of this product.