

SECTION 1 – IDENTIFICATION

NAME / CODE: HFC-48 / 4800XX

USE: High foaming non-chlorinated detergent

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: 1 (877) 565 8540

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: None

HEALTH HAZARDS: Skin corrosion / Irritation, category 2
Serious eye damage / Eye irritation, category 1

ENVIRONMENTAL HAZARDS: Not available

GHS LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: Causes skin irritation.
Causes serious eye damage.

PRECAUTIONARY STATEMENTS

PREVENTION: Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE: **If on skin:** Wash with plenty of soap and water. Specific treatment (see supplemental first aid on the label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. **If in eyes:** Rinse immediately and cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing, keeping eyelids open. Immediately call a POISON CENTER or doctor/physician.

STORAGE / DISPOSAL: No special remarks.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS	% (W/W)
Ethylenediaminetetraaceticacid, tetrasodium	000064-02-8	5 - 10
Linear alcohol ethoxylated	068439-46-3	3 - 7
Sodium dodecylbenzenesulphonate	025155-30-0	3 - 7
Sodium xylene sulphonate	001300-72-7	3 - 7
Sodium metasilicate	006834-98-0	1 - 5

SECTION 4 – FIRST AID MEASURES

SKIN:	Remove contaminated clothing. Rinse skin with water for at least 10 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.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	Skin: Irritation, redness of the skin. Eyes: Causes serious eye damage. Symptoms may include burning, tingling, watery eyes, redness, swelling and blurred vision.
TO PHYSICIAN:	Treat symptoms.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:	Water spray, carbon dioxide, chemical powder, foam.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet as an extinguisher, as this will spread the fire.
SPECIFIC HAZARDS:	Not flammable. Under fire conditions, toxic and corrosive fumes are emitted. The product does not burn itself but may decompose upon heating to produce corrosive and/or toxic fumes.
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. Wear gloves and safety goggles. Prevent discharge in sewers.
ENVIRONMENTAL PRECAUTIONS:	Avoid the spillage or runoff entering drains, sewers or watercourses.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Wear protective clothing. Control spill to prevent runoff into sewers. Cover with inert absorbent material and recover in suitable containers. Sweep and rinse with water.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid contact of the product with eyes and skin. Do not eat, drink or smoke when using this product. Wash hands after handling.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Keep containers closed, in fresh, dry and well ventilated area, away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

No occupational exposure limits known.

APPROPRIATE ENGINEERING CONTROL: Normal ventilation

PERSONAL PROTECTIVE EQUIPMENT



SKIN:	Impermeable gloves.
EYES:	Safety goggles.

RESPIRATORY: Generally, not required.
HYGIENE MEASURES: Wash hands after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / FORM: Clear liquid
COLOR: Colorless-beige
ODOR: Odorless
ODOR THRESHOLD: Not available
pH: 11 - 13
MELTING POINT / FREEZING POINT (°C): ~ 0
BOILING POINT (°C): ~ 100
FLASH POINT (°C): Not available
EVAPORATION RATE: Not available
EXPLOSIVE LIMITS: Not available
VAPOUR PRESSURE: Not available
VAPOUR DENSITY: Not available
DENSITY (kg/L): 1.07 - 1.09
WATER SOLUBILITY: Complete
PARTITION COEFFICIENT / N-OCTANOL/WATER: Not available
AUTOIGNITION TEMPERATURE (°C): Not available
DECOMPOSITION TEMPERATURE (°C): Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No dangerous reaction known under conditions of normal use.
STABLE: 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.
HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN: Causes skin irritation.
EYES: Causes serious eye damage.
INHALATION: No serious effect.
INGESTION: May cause an irritation.

NUMERIC VALUES OF TOXICITY

ACUTE ORAL TOXICITY:	LD50 : 5706 mg/kg, rat
ACUTE DERMAL TOXICITY:	Not available. No health effects (normal conditions of use).
ACUTE INHALATION TOXICITY:	Not available. No health effects (normal conditions of use).
<u>DELAYED AND IMMEDIATE EFFECTS</u>	
SKIN CORROSION / IRRITATION:	Causes skin irritation.
SERIOUS EYE DAMAGE / EYE IRRITATION:	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:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.
REPRODUCTIVE TOXICITY:	No potential reproductive toxicity.
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE:	Not classified
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE:	Not classified
ASPIRATION HAZARD:	Not classified

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	Sodium xylene sulphonate LC50, Fish, ≥ 1000 mg/l, 96h EC50, Daphnia magna, ≥ 1000 mg/l, 48h
	Sodium metasilicate LC50, Fish, 210 mg/l, 96h EC50, Daphnia magna, 1700 mg/l, 48h
PERSISTENCE AND DEGRADABILITY:	Not available
BIOACCUMULATIVE POTENTIAL:	Not available
MOBILITY IN SOIL:	Not available
OTHER ADVERSE EFFECTS:	Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS:	Collect in appropriate containers and recycle or dispose the product at a licensed waste disposal site or in accordance with local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses.
HAZARDOUS WASTE CODE:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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:	Not regulated
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SPECIAL PRECAUTIONS FOR USER: Read safety instructions, SDS and emergency procedures before handling.

SECTION 15 – REGULATORY INFORMATION

Ingredients included on inventory of DSL (Canada), REACH, TSCA (USA)

SECTION 16 – OTHER INFORMATION

PRODUCT NAME: HFC-48
CODE: 4800XX
IN CASE OF ACCIDENTAL SPILL: CANUTEC (Canada): 1 (613) 996-6666
PREPARED BY: B.O.D. CHEMICALS INC.
PHONE: (450) 443-5556
DATE: February 28th, 2019

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.