BÁCHARACI

Fluid, Fyrite, CO2, 20% and 60%; Fluid Fyrite, CO2, 7%

This document replaces Bacharach MSDS reference 0099-0006 and 0099-0007 Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous

Products Regulation (February 11, 2015).

Revision Date: 10/19/2020

Date of Issue: 11/03/2015

Supersedes Date: 08/10/2018

SECTION 1: IDENTIFICATION

Product Identifier 1.1. Product Form: Mixture

Product Name: Fluid, Fyrite, CO2, 20% and 60%; Fluid Fyrite, CO2, 7%

Intended Use of the Product Industrial. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Bacharch, Inc. 621 Hunt Valley Circle New Kensington, PA 15068

724-334-5760

http://www.mybacharach.com msdsr@mybacharach.com

Emergency Telephone Number

Emergency Number : 800-424-9300 (CHEMTREC)

Bacharach of Canada Inc. 10 West Pearce Street, Unit 4 Richmond Hill, Ontario LB4 1B6

(800) - 328 - 5217

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS-US/CA Classification

Met. Corr. 1 H290 Acute Tox. 4 (Oral) H302 Skin Corr. 1 H314 Eve Dam. 1 H318

Full text of hazard classes and H-statements: see section 16

Label Elements 2.2.

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)





Signal Word (GHS-US/CA) Danger

Hazard Statements (GHS-US/CA) : H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

Precautionary Statements (GHS-US/CA): P234 - Keep only in original container.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P330 - Rinse mouth.

P363 - Wash contaminated clothing before reuse.

P390 - Absorb spillage to prevent material-damage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container in accordance with local, regional, provincial,

territorial, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May be corrosive to respiratory tract.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Water	AQUA / water	(CAS-No.) 7732-18-5	77.37 – 91.41	Not classified
Potassium hydroxide	Caustic potash / Potassium hydroxide (K(OH)) / POTASSIUM HYDROXIDE	(CAS-No.) 1310-58-3	7.98 – 21.81	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 1, H370
Alcohols, C7-9-iso-, C8-rich	Alcohols, C7-9-iso-, C8 rich / Exxal 8	(CAS-No.) 68526-83-0	0.51 – 0.6	Aquatic Acute 3, H402
C.I. Acid Red 14	Acetacid Red B / Acid Chrome Blue 2R / Acid Fast Red FB / Acid Red 14 / Acid Red 2C / Amacid Chrome Blue R / Atul Acid Crystal Red / Brilliant Crimson Red	(CAS-No.) 3567-69-9	0.0077 – 0.0091	Comb. Dust
2-Naphthalenol, 1-[[4- [(dimethylphenyl)azo]dimeth ylphenyl]azo]-	1-[[4- [(Dimethylphenyl)azo]dimethyl phenyl]azo]-2-naphthol / C.I. Solvent Red 27 / 2- Naphthalenol, 1-[2-[4-[2- (dimethylphenyl)diazenyl]dime thylphenyl]diazenyl]- / Solvent red 27	(CAS-No.) 1320-06-5	0.0001 – 0.00012	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Get immediate medical advice/attention.

Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

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^{*}Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

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Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: Causes severe irritation which will progress to chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Potassium oxides. Carbon oxides (CO, CO₂). Nitrogen oxides. Sodium oxides. Sulfur oxides.

Corrosive vapors. Toxic fumes may be released.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Absorb spillage to prevent material damage. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals. May release corrosive vapors.

Precautions for Safe Handling: Do not breathe vapors, mist, spray. Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Storage areas should be periodically checked for corrosion and integrity.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Metals.

7.3. Specific End Use(s)

Industrial. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Potassium hydroxide (1310-58-3)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³
Alberta	OEL Ceiling (mg/m³)	2 mg/m³
British Columbia	OEL Ceiling (mg/m³)	2 mg/m³
Manitoba	OEL Ceiling (mg/m³)	2 mg/m³
New Brunswick	OEL Ceiling (mg/m³)	2 mg/m³
Newfoundland & Labrador	OEL Ceiling (mg/m³)	2 mg/m³
Nova Scotia	OEL Ceiling (mg/m³)	2 mg/m³
Nunavut	OEL Ceiling (mg/m³)	2 mg/m³
Northwest Territories	OEL Ceiling (mg/m³)	2 mg/m³
Ontario	OEL Ceiling (mg/m³)	2 mg/m³
Prince Edward Island	OEL Ceiling (mg/m³)	2 mg/m³
Québec	PLAFOND (mg/m³)	2 mg/m ³
Saskatchewan	OEL Ceiling (mg/m³)	2 mg/m³
Yukon	OEL Ceiling (mg/m³)	2 mg/m ³

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.











Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield. **Skin and Body Protection:** Wear suitable protective clothing.

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Relative Density

Specific Gravity

Solubility

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Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties		
Physical State	:	Liquid
Appearance	:	Red
Odor	:	Not available
Odor Threshold	:	Not available
рН	:	13 – 14
Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20°C		Not available

Viscosity
SECTION 10: STABILITY AND REACTIVITY

Partition Coefficient: N-Octanol/Water

10.1. Reactivity: May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Not available

Not available Not available

Not available

Not available

- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- **10.4.** Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Metals.
- **10.6. Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Harmful if swallowed.
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

Fluid, Fyrite, CO2, 20% and 60%; Fluid Fyrite, CO2, 7%	
ATE US/CA (oral)	1,302.15 mg/kg body weight

Skin Corrosion/Irritation: Causes severe skin burns.

pH: 13 – 14

Eye Damage/Irritation: Causes serious eye damage.

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pH: 13 – 14

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. **Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant

amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Potassium hydroxide (1310-58-3)		
LD50 Oral Rat	284 mg/kg	
C.I. Acid Red 14 (3567-69-9)		
LD50 Oral Rat	> 10 g/kg	
Alcohols, C7-9-iso-, C8-rich (68526-83-0)		
LD50 Oral Rat	> 2000 mg/kg	
LD50 Dermal Rabbit	> 2623 mg/kg	
C.I. Acid Red 14 (3567-69-9)		
IARC Group	3	

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Alcohols, C7-9-iso-, C8-rich (68526-83-0)	
LC50 Fish 1	14 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

12.2. Persistence and Degradability

	····)
Fluid, Fyrite, CO2, 20% and 60%; Fluid Fyrite, CO2, 7%	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Fluid, Fyrite, CO2, 20% and 60%; Fluid Fyrite, CO2, 7%	
Bioaccumulative Potential	Not established.
Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water	0.65
(Log Pow)	

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

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SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : POTASSIUM HYDROXIDE, SOLUTION

Hazard Class : 8

Identification Number : UN1814

Label Codes : 8
Packing Group : II
ERG Number : 154
14.2. In Accordance with IMDG

Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION

Hazard Class : 8

Identification Number : UN1814

Label Codes: 8Packing Group: IIEmS-No. (Fire): F-AEmS-No. (Spillage): S-B14.3.In Accordance with IATA

Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION

Hazard Class : 8 Identification Number : UN1814

Label Codes : 8
Packing Group : II
ERG Code (IATA) : 8L

14.4. In Accordance with TDG

Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Hazard Class : 8
Identification Number : UN1814
Label Codes : 8

Packing Group : II



SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

13.1. O3 i caci ai ricgalations		
Fluid, Fyrite, CO2, 20% and 60%; Fluid Fyrite, CO2, 7%		
SARA Section 311/312 Hazard Classes	Physical hazard - Corrosive to metals	
	Health hazard - Acute toxicity (any route of exposure)	
	Health hazard - Skin corrosion or Irritation	
	Health hazard - Serious eye damage or eye irritation	
Potassium hydroxide (1310-58-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	1000 lb	
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
C.I. Acid Red 14 (3567-69-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
2-Naphthalenol, 1-[[4-[(dimethylphenyl)azo]dimethylphenyl]azo]- (1320-06-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Alcohols, C7-9-iso-, C8-rich (68526-83-0)		

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15.2. US State Regulations

Potassium hydroxide (1310-58-3)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

15.3. Canadian Regulations

Potassium hydroxide (1310-58-3)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

C.I. Acid Red 14 (3567-69-9)

Listed on the Canadian DSL (Domestic Substances List)

2-Naphthalenol, 1-[[4-[(dimethylphenyl)azo]dimethylphenyl]azo]- (1320-06-5)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C7-9-iso-, C8-rich (68526-83-0)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest

Revision

: 10/19/2020

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products

Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1	Skin corrosion/irritation Category 1
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H370	Causes damage to organs
H402	Harmful to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)

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