



Fluid, Fyrite, CO2, 60%

Bacharach SDS reference number 0099-1007

Safety Data Sheet

In accordance with Hazard Classification and Communication System of Hazardous Substances B.E. 2555 (2012) - Thailand

Revision Date: 09/18/2017

Version: 1.1

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Fluid, Fyrite, CO2, 60%

Intended Use of the Product

Use of the Substance/Mixture: Industrial use. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

Bacharach, Inc.

621 Hunt Valley Circle

New Kensington, PA 15068

T 724-334-5760

msdsr@mybacharach.com - <http://www.mybacharach.com>

Emergency Telephone Number

Emergency number : +1 800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-TH)

Physical Hazards Corrosive to metals Category 1

Health Hazards Acute toxicity (oral) Category 4

Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

Specific target organ toxicity (single exposure) Category 1

Aspiration hazard Category 1

Label Elements

GHS-TH Labeling

Hazard Pictograms (GHS-TH)



Signal Word (GHS-TH)

: Danger

Hazard Statements (GHS-TH)

: H290 - May be corrosive to metals
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H370 - Causes damage to organs

Precautionary Statements (GHS-TH)

P234 - Keep only in original container.
P260 - Do not breathe vapors, mist, 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, eye protection, face protection, respiratory protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+P340 - If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.
P307+P311 - IF exposed: Call a POISON CENTER or doctor/physician.
P310 - If on skin, if in eyes, if swallowed, and if inhaled, immediately call a doctor.
P321 - Specific treatment (see section 4).
P330 - If swallowed, rinse mouth.
P331 - If swallowed, do NOT induce vomiting.
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, national, and international.

Other Hazards

Other Hazards Not Contributing to the Classification:

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Corrosive to metals upon prolonged contact. Corrosive vapors.

Unknown Acute Toxicity (GHS-TH) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Concentration(%)	Product identifier
Water	78.08%	(CAS No) 7732-18-5
Potassium Hydroxide	21.92%	(CAS No) 1310-58-3
C.i. Acid Red 14	0.0002%	(CAS No) 3567-69-9

SECTION 4: FIRST AID MEASURES

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. If you feel unwell, seek medical advice.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. 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. Obtain medical attention. Seek medical attention immediately.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

Personal Protection in First Aid and Measures: Not available

Most Important Symptoms and Effects Both Acute and Delayed

General: Corrosive. Causes burns. Causes serious eye damage. Harmful if swallowed. May cause damage to organs. May be fatal if swallowed and enters airways.

Inhalation: May cause respiratory irritation. Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

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

Eye Contact: Causes serious eye damage. Contact may cause immediate severe irritation progressing quickly to chemical burns.

Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

Chronic Symptoms: Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

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

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Special Hazards Arising From the Substance or Mixture

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

Explosion Hazard: Product is not explosive.

Reactivity: In a fire may produce toxic, corrosive, irritating, and reactive gases.

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. Sulfur oxides. Toxic fumes are released. Corrosive vapors.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do NOT breathe (vapors, mist, spray). Do not get in eyes, on skin, or on clothing.

For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Cautiously neutralize spilled liquid.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Corrosive to metals upon prolonged contact. Corrosive vapors are released.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, ignition sources, direct sunlight, incompatible materials.

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

Storage Area: Store in a well-ventilated place. Keep cool.

Specific End Use(s)

Industrial use. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Potassium hydroxide (1310-58-3)		
USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³

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Exposure Controls

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

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



Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosionproof clothing.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Not available

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Red
Odor	: Not available
Odor Threshold	: Not available
pH	: 13 - 14
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
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Not available
Partition Coefficient: N-octanol/water	: Not available
Viscosity	: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: In a fire may produce toxic, corrosive, irritating, and reactive gases.

Chemical Stability: Stable at standard temperature and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Incompatible materials.

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

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Sulfur oxides. Potassium oxides. Toxic gases. Corrosive vapors.

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SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Harmful if swallowed

LD50 and LC50 Data:

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ATE TH (oral)	1295.62 mg/kg body weight

Skin Corrosion/Irritation: Corrosive. Causes burns

pH: 13 - 14

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 13 - 14

Respiratory or Skin Sensitization: Not available

Germ Cell Mutagenicity: Not available

Carcinogenicity: Not available

Specific Target Organ Toxicity (Repeated Exposure): Not available

Reproductive Toxicity: Not available

Specific Target Organ Toxicity (Single Exposure): Causes damage to organs.

Aspiration Hazard: Not available

Symptoms/Injuries After Inhalation: May cause respiratory irritation. Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

Symptoms/Injuries After Skin Contact: Corrosive. Causes burns. Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Contact may cause immediate severe irritation progressing quickly to chemical burns.

Symptoms/Injuries After Ingestion: Harmful if swallowed.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg

Potassium hydroxide (1310-58-3)	
LD50 Oral Rat	284 mg/kg

C.I. Acid Red 14 (3567-69-9)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified

Persistence and Degradability Not available

Bioaccumulative Potential

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Bioaccumulative Potential	Not established.

Potassium hydroxide (1310-58-3)	
Log Pow	0.65

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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SECTION 14: TRANSPORT INFORMATION

In Accordance with UNRTDG

Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION
Hazard Class : 8
Identification Number : 1814
Label Codes : 8
Packing Group : II



In Accordance with IMDG

Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION
Hazard Class : 8
Identification Number : UN1814
Packing Group : II
Label Codes : 8
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
MFAG Number : 154



In Accordance with IATA

Proper Shipping Name : POTASSIUM HYDROXIDE SOLUTION
Packing Group : II
Identification Number : UN1814
Hazard Class : 8
Label Codes : 8
ERG Code (IATA) : 8L



Special Precautions for User Not available

Transport in Bulk (According to Annex II of Marpol 73/78 and IBC code) Not available

SECTION 15: REGULATORY INFORMATION

National Regulations

Water (7732-18-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium hydroxide (1310-58-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECS (Inventory of Existing Chemical Substances Produced or Imported in China)

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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Japanese Poisonous and Deleterious Substances Control Law
Listed on the Canadian IDL (Ingredient Disclosure List)

International Agreements

No additional Information available

Thailand Regulations

Potassium hydroxide (1310-58-3)

Hazardous Substance Act

Hazardous Substances

SECTION 16: OTHER INFORMATION

Revision date : 03/11/2014

Other Information : According to Notification of Ministry of Industry Subject: Hazard Classification and Communication System of Hazardous Substances B.E. 2555 (2012) - Thailand

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.

SDS Thailand