



Fluid, Fyrite, O2, 21%

Bacharach SDS reference number 0099-1004

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, O2, 21%

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 3

Acute toxicity (dermal) Category 5

Acute toxicity (inhalation:dust,mist) Category 4

Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

Respiratory sensitisation Category 1

Skin sensitization Category 1

Germ cell mutagenicity Category 2

Reproductive toxicity Category 2

Specific target organ toxicity (single exposure) Category 1

Specific target organ toxicity (repeated exposure) Category 1

Environmental Hazards

Hazardous to the aquatic environment - Acute Hazard Category 1

Hazardous to the aquatic environment - Chronic 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

H301 - Toxic if swallowed

H313 - May be harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H341 - Suspected of causing genetic defects

H361 - Suspected of damaging fertility or the unborn child

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Precautionary Statements (GHS-TH)

H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
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.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.
P285 - In case of inadequate ventilation wear respiratory protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
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 contact lenses, if present and easy to do. Continue rinsing.
P307+P311 - IF exposed: Call a POISON CENTER or doctor/physician.
P308+P313 - If exposed or concerned, get medical advice and attention.
P310 - If on skin, if in eyes, if swallowed, and if inhaled, immediately call a doctor.
P312 - Call a doctor if you feel unwell.
P321 - Specific treatment (see section 4).
P330 - If swallowed, rinse mouth.
P333+P313 - If on skin and if skin irritation or rash occurs, seek medical advice and attention.
P342+P311 - If experiencing respiratory symptoms, call a doctor.
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P391 - Collect spillage.
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 regulations.

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. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

Unknown Acute Toxicity (GHS-TH) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Concentration(%)	Product identifier
Water	41.50%	(CAS No) 7732-18-5
Chromium(iii) Chloride Hexahydrate	29.10%	(CAS No) 10060-12-5
Zinc	16.53%	(CAS No) 7440-66-6
Hydrogen Chloride	11.20%	(CAS No) 7647-01-0
Mercury Chloride (hgcl2)	1.67%	(CAS No) 7487-94-7

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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. Seek medical attention.

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. Toxic if swallowed. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage. Causes damage to organs through prolonged or repeated exposure. May be harmful in contact with skin. Harmful if inhaled.

Inhalation: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Contact: Corrosive. Causes burns. Causes severe irritation which will progress to chemical burns. May be harmful in contact with skin. May cause an allergic skin reaction.

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

Ingestion: Toxic if swallowed.

Chronic Symptoms: Suspected of damaging fertility. Suspected of damaging the unborn child. May cause genetic defects. May cause damage to organs through prolonged or repeated exposure.

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.

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: Oxides of zinc. Hydrogen chloride. Mercury oxides. Chromium oxides. Corrosive vapors. Toxic fumes are released. Carbon oxides (CO, CO₂).

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.

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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. Inhalation of fumes may cause metal fume fever.

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. Halogenated compounds. Metals. Ammonia. Nitrogen containing compounds, ammonium compounds.

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

Hydrogen chloride (7647-01-0)

USA ACGIH

ACGIH Ceiling (ppm)

2 ppm

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Blue
Odor	: Not available
Odor Threshold	: Not available
pH	: < 1
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. Metals. Halogenated compounds. Ammonia. Nitrogen containing compounds, ammonium compounds.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). May release flammable gases. Oxides of zinc. Hydrogen chloride. Chlorine. Chromium oxides. mercury oxides. Corrosive vapors. Toxic vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Toxic if swallowed

LD50 and LC50 Data:

Fluid, Fyrite, O2, 21%	
ATE TH (oral)	57.716 mg/kg body weight
ATE TH (dermal)	2455.09 mg/kg body weight
ATE TH (dust, mist)	3.75 mg/l/4h

Skin Corrosion/Irritation: Corrosive. Causes burns.

pH: < 1

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: < 1

Respiratory or Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ Cell Mutagenicity: Suspected of causing genetic defects

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Carcinogenicity: Not available

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause damage to organs

Aspiration Hazard: Not available

Symptoms/Injuries After Inhalation: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/Injuries After Skin Contact: Corrosive. Causes burns. Causes severe irritation which will progress to chemical burns. May be harmful in contact with skin.

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

Symptoms/Injuries After Ingestion: Toxic if swallowed.

Chronic Symptoms: Suspected of damaging fertility. Suspected of damaging the unborn child. May cause genetic defects. May cause damage to organs through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Chromium(III) chloride hexahydrate (10060-12-5)	
LD50 Oral Rat	1870 mg/kg
Mercury chloride (HgCl₂) (7487-94-7)	
LD50 Oral Rat	1 mg/kg
LD50 Dermal Rabbit	41 mg/kg
Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg
Hydrogen chloride (7647-01-0)	
LD50 Oral Rat	238 (238 - 277) mg/kg
LD50 Dermal Rabbit	> 5010 mg/kg
LC50 Inhalation Rat	1.68 mg/l (Exposure time: 1 h)
ATE TH (gases)	100.00 ppmV/4h
ATE TH (dust, mist)	0.42 mg/l/4h
Mercury chloride (HgCl₂) (7487-94-7)	
IARC Group	3
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Very toxic to aquatic life with long lasting effects.

Mercury chloride (HgCl₂) (7487-94-7)	
LC50 Fish 1	0.096 - 0.133 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 0.012 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])
LC 50 Fish 2	0.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
EC50 Daphnia 2	0.0015 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Zinc (7440-66-6)	
LC50 Fish 1	2.16 - 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.139 - 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	0.211 - 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

Persistence and Degradability

Fluid, Fyrite, O2, 21%	
Persistence and Degradability	May cause long-term adverse effects in the environment.

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Bioaccumulative Potential

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Bioaccumulative Potential Not established.

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.

Additional Information: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance with UNRTDG

Proper Shipping Name : CORROSIVE LIQUID, TOXIC, N.O.S. (contains Chromium Chloride and Mercuric Chloride)

Hazard Class : 8

Identification Number : 2922

Label Codes : 8,6.1

Packing Group : II

Marine Pollutant : Marine pollutant



In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, TOXIC, N.O.S. (contains Chromium Chloride and Mercuric Chloride)

Hazard Class : 8

Identification Number : UN2922

Packing Group : II

Label Codes : 8,6.1

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B

Marine pollutant : Marine pollutant



In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, TOXIC, N.O.S. (contains Chromium Chloride and Mercuric Chloride)

Packing Group : II

Identification Number : UN2922

Hazard Class : 8

Label Codes : 8,6.1

ERG Code (IATA) : 8P

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

Chromium(III) chloride hexahydrate (10060-12-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Mercury chloride (HgCl₂) (7487-94-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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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
Japanese Poisonous and Deleterious Substances Control Law
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on the United States SARA Section 302
Listed on the Canadian IDL (Ingredient Disclosure List)

Water (7732-18-5)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (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

Zinc (7440-66-6)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (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
Listed on United States SARA Section 313

Hydrogen chloride (7647-01-0)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (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
Japanese Poisonous and Deleterious Substances Control Law
Listed on the United States SARA Section 302
Listed on United States SARA Section 313
Listed on the Canadian IDL (Ingredient Disclosure List)

International Agreements

Mercury chloride (HgCl₂) (7487-94-7)

Listed on EU - Export and Import Restrictions (689/2008) - Chemicals Subject to the PIC Procedure under the Rotterdam Convention

Thailand Regulations

Mercury chloride (HgCl₂) (7487-94-7)

Hazardous Substance Act	Hazardous Substances
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Zinc (7440-66-6)

Enhancement and Conservation of the National	Industrial Effluent Standards, Ground Water Quality Standards for
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Environmental Quality Act	Drinking Purposes - Maximum Allowable Concentration, Ground Water Quality Standards - Maximum Concentration Allowance, Ground Water Quality Standards for Drinking Purposes - Suitable Allowance
Ground Water Act	Maximum Allowable Concentration, Ground Water Quality Standards for Drinking Purposes - Suitable Allowance
Marine Water Quality Standards	Class 6, Class 5, Class 4, Class 3, Class 2, Class 1
Notification of the Ministry of Industry, No. 322, B.E. 2521 (1978)	Maximum Allowable Concentration, Maximum Acceptable Concentration
Notification of the Ministry of Public Health, No. 61 B.E. 2524 (1981)	Maximum Allowable Concentration
Water Quality Standards	Maximum Concentration Allowance
Factory Act	Industrial Effluent Standards, Characteristic of Hazardous Waste - Inorganic/Organic Persistent & Bioaccumulative Toxic Substances - STLC, Characteristic of Hazardous Waste - Inorganic/Organic Persistent & Bioaccumulative Toxic Substances - TTLC
Industrial Effluent Standards	5.0 mg/l
Hydrogen chloride (7647-01-0)	
Pollution Control Department	Chemicals of Interest
Factory Act	Air Contaminant Standards

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.