



MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT IDENTIFIER

Product Name: EPOCHEM® Heavy-Duty Tile & Concrete Cleaner

Product Code:

RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Cleaner

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

Name/Address: Epoxy Oilserv Ltd

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HAZARD IDENTIFICATION

CLASSIFICATION OF THE CHEMICAL

Serious Eye Damage

Category 1

Skin Corrosion

Category 1C

LABEL ELEMENTS

SIGNAL WORD:

DANGER!

HAZARD STATEMENTS

Causes serious eye damage Causes severe skin burns

HAZARD PICTOGRAM





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PRECAUTIONARY STATEMENT

PREVENTION Wash hands thoroughly after handling. Do not breathe vapors/mist. Do not eat, drink or smoke while using this product. Use only outdoors or in a well ventilated area. Wear impervious gloves/protective clothing/eye protection.

RESPONSE If on skin (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting.

STORAGE Store in a well-ventilated place. Stored locked up. Keep container tightly closed.

DISPOSAL Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

ADDITIONAL INFORMATION

HNOC HAZARDS NOT OTHERWISE CLASSIFIED Not Applicable

UNKNOWN ACUTE TOXICITY

3.65% of the mixture consists of ingredient(s) of unknown acute toxicity



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COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

CHEMICAL NAME	CAS NUMBER	WEIGHT%
Potassium Hydroxide	1310-58-3	1-5%
Monoethanolamine	141-43-5	1-5%

Means that the component will fall into the range specified due to batch-to-batch variability

FIRST AID MEASURES

DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE

DESCRIPTION

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion:

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.



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MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis.
Inhalation:	May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Note to Physicians:	Symptoms may not appear immediately.
Specific Treatments:	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

FIRE-FIGHTING MEASURES

FLAMMABILITY

Flammability: Not Flammable/Not Combustible

EXTINGUISHING MEDIA Suitable Extinguishing Media: Treat for surrounding material.
Unsuitable Extinguishing Media: Not Available

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon

Explosion Data Sensitivity to Mechanical Impact: Not Available



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Sensitivity to Static Discharge: Not Available

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full bunker gear) and respiratory protection (SCBA).

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment: Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning Up: Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handling: Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally. Good housekeeping is important to prevent accumulation of dust.

General Hygiene Advice:

Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep container tightly closed. Store locked up. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area.



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EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETER

Exposure Guidelines

OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL	AUS-STEL	ACGIH-TLV
KOH	N/A	2mg/m ³
MONOETHANOLAMINE	50ppm	20ppm

EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

INDIVIDUAL PROTECTION MEASURES

Personal Protective Equipment:

1. Eye/Face Protection: Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)] ii. Skin Protection: 1. Hand Protection: Wear impervious gloves, such as nitrile.

2. Body Protection: Wear suitable protective clothing.

- Respiratory Protection: An AS/NZS approved respirator or filtering face piece, such as P2, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in AS/NZS 1716 or ANSI's standard for respiratory protection (Z88.2)
- General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.



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PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):

Blue Liquid

Odor: Characteristic

Odor Threshold: Not Available

pH: 13.1 –13.7

Melting point/Freezing point:

Not Available

Initial boiling point and boiling range:

>212°F(>100°C) Flash point:>200°F(>93.3°C)

Evaporation rate (Water=1):

Not Available

Flammability: Not Flammable/Not Combustible

Upper Flammability/Explosive Limit:

Not Available

Lower Flammability/Explosive Limit:

Not Available

Vapor Pressure Not Available

Vapor Density: Not Available

Relative Density: 0.99 –1.05 g/ML

Solubility in Water: Miscible

Partition coefficient: n-octanol/water:

Not Available

Auto-ignition temperature:

Not Available

Decomposition Temperature:

Not Available



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STABILITY AND REACTIVITY

REACTIVITY No dangerous reaction known under conditions of normal use.

CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.

CONDITIONS TO AVOID

Heat. Incompatible materials.

INCOMPATIBLE MATERIALS

Strong acids. Strong Oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product may yield oxides of carbon.

TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

- Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin Contact:** Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis.
- Inhalation:** May cause respiratory tract irritation.
- Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.



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ACUTE TOXICITY		
CHEMICAL NAME	LC 50	LD50
KOH	N/A	DERMAL:1,350mg/kg, Rabbit
MONO ETHANOLAMINE	2.21mg/L 4hr,rat	Oral: 470mg/kg,rat

CARCINOGENICITY	
CHEMICAL NAME	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)
POTASSIUM HYDROXIDE	Not Listed
MONO ETHANOLAMINE	1-3

DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM

Skin Corrosion/Irritation:

Causes severe skin burns

Serious Eye Damage/Irritation:

Causes serious eye damage

Respiratory Sensitization:

Not Classified

Skin Sensitization: Not Classified

STOT-Single Exposure:

May cause respiratory irritation

Aspiration Hazard: Not Classified

LONG-TERM Carcinogenicity:

Not Classified

Germ Cell Mutagenicity:

Not Classified

Reproductive Toxicity: Not Classified

STOT-Repeated Exposure:



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Not Classified

Synergistic/Antagonistic Effects:

Not Classified

ECOLOGICAL INFORMATION

ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

ECOTOXICITY		
CHEMICAL NAME	EC50/NOEC-48HOURS	LC50/NOEC-96HOURS
POTASSIUM HYDROXIDE	N/A	45.4 mg/L, <i>Oncorhynchus mykiss</i>
MONOETHANOLAMINE	>1,000 mg/L, <i>Daphnia magna</i>	1,490mg/L, <i>Lepomis macrochirus</i>

PERSISTENCE AND DEGRADABILITY

Not Available

BIOACCUMULATIVE POTENTIAL

Not Available

MOBILITY IN SOIL

Not Available

OTHER ADVERSE EFFECTS

Not Available



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DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

OTHER DISPOSAL CONSIDERATIONS

Not Available

ENVIRONMENTAL HAZARDS

Not Available

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Available

SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

HAZCHEM OR EMERGENCY ACTION CODE

2X

REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Australia: This product has been classified in accordance with the hazard criteria of the Model Work Health and Safety Regulations and the SDS contains all the information required by the Model Work Health and Safety Regulations

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65
OSHA (O)	Occupational Safety and Health Administration
ACGIH (G)	American Conference of Governmental Industrial Hygienists-A1 – Confirmed human carcinogen-
	A2 – Suspected human carcinogen-
	A3 –Animal carcinogen



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A4 –Not classifiable as a human carcinogen-

A5 –Not suspected a human carcinogen

IARC (I)

International Agency for Research on Cancer-

1 – The agent (mixture) is carcinogenic to humans-

2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.-

2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.-4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N)

National Toxicology Program-

1 – Known to be carcinogens-

2 –Reasonably anticipated to be carcinogens



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OTHER INFORMATION

Date of Preparation: February 28, 2019

Disclaimer:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein.

We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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