

SAFETY DATA SHEET

EHC® ISCR Amendment

SDS #: EHC-C
Revision date: 2014-08-08
Version 1



1.1 Product Identifier

Product Name EHC® ISCR Amendment

Pure substance/mixture Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Bioremediation product for the remediation of contaminated soil and groundwater

Restrictions on use: Not for drinking water purification treatment.

1.3 Details of the supplier of the safety data sheet

Supplier PeroxyChem
1345 Fewster drive
Mississauga, Ontario
L4W 2A5
Canada
Tel. 1-905-273-5374
Fax 1-905-273-4367

1.4 Emergency telephone number

1 416 / 903-9491

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
1 303/ 389-1409 (Medical - U.S. - Call Collect)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC.

2.2 Label Elements

Not dangerous

2.3 OTHER INFORMATION

CONTAINMENT HAZARD: Any vessel that contains wet EHC must be vented due to potential pressure build up from fermentation gases
Inhalation of dust in high concentration may cause irritation of respiratory system

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	EC-No	CAS-No	Weight %	EU - DSD Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
Iron	Present	7439-89-6	18-48	-	-	-
Organic amendment	Listed	-	52-82	-	-	-
Viscosity modifier	Listed	-	0-5	-	-	-

Occupational exposure limits, if available, are listed in section 8

4. FIRST AID MEASURES**4.1 Description of first-aid measures**

Eye Contact	In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops and persists.
Skin Contact	Wash off with soap and water.
Inhalation	Remove person to fresh air. If signs/symptoms continue, get medical attention.
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media****Suitable Extinguishing Media**

Dry chemical, CO2, sand, earth, water spray or regular foam

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

No information available.

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. For personal protection see section 8.

6.2 Environmental Precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Sweep or vacuum up spillage and return to container. The waste may be recovered and recycled.

6.4 Reference to other sections.

For disposal see section 13
For personal protection see section 8.

7. HANDLING AND STORAGE**7.1 Precautions for Safe Handling**

Minimize dust generation and accumulation. Keep away from open flames, hot surfaces and sources of ignition. Refer to Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Keep away from open flames, hot surfaces and sources of ignition. Any vessel that contains wet EHC must be vented due to potential pressure build up from fermentation gases.

Materials to avoid

Oxidizing agents Strong acids

7.3 Specific end uses

See subsection 1.2. Relevant identified uses of the substance or mixture and uses advised against.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Exposure Guidelines Local nuisance dust standards apply

Chemical name	Slovakia	Switzerland	Belgium
Iron 7439-89-6	TWA 6.0 mg/m ³		
Chemical name	Romania	Bulgaria	Russia
Iron 7439-89-6		TWA 6.0 mg/m ³	TWA 10 mg/m ³

8.2 Exposure Controls**Engineering measures**

None under normal use conditions. Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment**Respiratory Protection**

In case of insufficient ventilation wear suitable respiratory equipment. Local nuisance dust standards apply.

Eye/Face Protection

Safety glasses with side-shields

Skin and Body Protection

Wear suitable protective clothing.

Hand Protection	Use gloves if extended exposure is anticipated Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.
Environmental exposure controls	The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Tan brown flakes,
Physical State	Solid
Odor	odorless
Odor threshold	Not applicable
pH	5.6 (as aqueous solution)
Flash point	No information available
Melting Point/Range	No information available
Freezing Point	No information available
Boiling Point/Range	No information available
Autoignition temperature	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	0.80 g/ml
Partition coefficient	No information available
Water solubility	practically insoluble
Viscosity	No information available
Evaporation Rate	No information available

9.2 OTHER INFORMATION

Bulk Density	No data available
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10. STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use conditions

10.2 Chemical Stability

Stable.

10.3 Possibility of Hazardous Reactions

May react with water to release flammable hydrogen gas.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 incompatible materials

Strong oxidizing agents

10.6 Hazardous Decomposition Products

Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

This product is expected to have low oral, dermal and inhalation toxicity.

LD50 Dermal

No information available

LD50 Oral

Iron: 98.6 g/kg (rat)

LC50 Inhalation

Iron: > 100 mg/m³ 6 hr (rat)

Skin Contact

Expected to be non-irritating based on ingredients.

Eye Contact

Expected to be non-irritating based on ingredients.

Chronic toxicity

No known chronic effects of components present at greater than 1%

Carcinogenicity

Contains no ingredient listed as a carcinogen.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

12.2 Persistence and degradability

Biodegradability does not pertain to inorganic substances.

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

Is not likely mobile in the environment due its low water solubility.

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

12.6 Other Adverse Effects

None known.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste from residues / unused products If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADR/RID NOT REGULATED

IMDG/IMO NOT REGULATED

ICAO/IATA NOT REGULATED

Transport Symbol

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)	NZIoC (New Zealand)
Iron 7439-89-6	X	X	X	-	X	X	X	X	X
Organic amendment	-	X	X	-	X	-	X	X	X
Viscosity modifier	X	X	X	X	X	X	X	X	X

Directive 2008/98/EC on waste

Does not apply

Major Accidents (Directive 96/82/CEE)

Not applicable

CWC (Chemical Weapons Convention) - Annex on Chemicals

Not applicable

EU Export and import of dangerous chemicals (Regulation (EC) No 304/2003)

Not Applicable

15.2 Chemical Safety Report

Chemical Safety Assessment not completed.

16. OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

Not classified as dangerous.

Restrictions on use:

This product's foreseen or recommended applications are: **Recommended Use:** Bioremediation product for the remediation of contaminated soil and groundwater

Revision date: 2014-08-08
Revision note Initial Release.

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Prepared By:

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End of Safety Data Sheet
