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Version 1

1. IDENTIFICATION

Product identifier

Product Name EZfire

Other means of identification

Product Code 708680

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Gelling agent.

Uses advised against For industrial use only

Details of the supplier of the safety data sheet

Supplier Address

H.L. Blachford Ltd. (905) 823-3200

2323 Royal Windsor Drive, Mississauga, ON L5J 1K5 Canada

Emergency telephone number

Emergency Telephone Chemtrec: 1-800-424-9300/1-703-741-5970

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Vapors)	Category 4
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2
Combustible dust	

Label elements

Emergency Overview

Warning

Hazard statements

Harmful if inhaled

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

May form combustible dust concentrations in air



Appearance powder

Physical state solid

Odor Slight

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection
 Avoid breathing dust
 Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response

IF exposed or concerned: Get medical advice
 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

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical nature Aluminum soap with additives.

Chemical Name	CAS No.	Weight-%
2-Ethylhexanoic acid	149-57-5	9 - 19
4-Nonylphenol, branched, ethoxylated	127087-87-0	1 - 5

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact Wash with soap and water. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Not an expected route of exposure. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms May cause irritation. When in doubt or if symptoms are observed, seek medical advice.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO₂, alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Use water spray or fog; do not use straight streams.

Specific hazards arising from the chemical

May form explosive mixtures with air.

Hazardous combustion products Carbon oxides; oxides of non-toxic metals.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid creating dust. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for reuse / disposal. Avoid creating dust.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Use personal protective equipment as required. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Ethylhexanoic acid 149-57-5	TWA: 5 mg/m ³ inhalable fraction and vapor	-	-

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves. Wear long sleeved clothing.
Respiratory protection	In dusty environments, use appropriate respiratory protection.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	solid	Odor	Slight
Appearance	powder	Odor threshold	No information available
Color	white to off white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5 - 6	(5% aqueous dispersion)
Melting point / freezing point	> 200 °C	
Boiling point / boiling range	not applicable	
Flash point	not applicable	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	not applicable	
Vapor density	not applicable	
Relative density	1.02	
Water solubility	slightly soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	May form explosive mixtures with air	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY**Reactivity**

Stable under normal conditions

Chemical stability

Stable.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to avoid

Dust formation. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Primary routes of exposure: inhalation, skin and eye contact

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Irritating to eyes.
Skin contact	prolonged skin contact may cause irritation.
Ingestion	Not an expected route of exposure. May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethylhexanoic acid 149-57-5	= 1600 mg/kg (Rat)	= 1140 mg/kg (Rabbit)	-
4-Nonylphenol, branched, ethoxylated 127087-87-0	= 1310 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms Contact with eyes will cause irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Based on available data, the classification criteria are not met. Prolonged contact may cause redness and irritation.
Serious eye damage/eye irritation	A component of this product is classified as Eye Damage Category 1, therefore the product has been classified as Eye Irritant Category 2A.
Sensitization	Not expected. Product does not contain any compounds known to cause sensitization.
Germ cell mutagenicity	None known.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	Contains a known or suspected reproductive toxin.
STOT - single exposure	None known.
STOT - repeated exposure	None known.
Aspiration hazard	Not applicable.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	3,152.00
ATEmix (dermal)	2,489.00
ATEmix (inhalation-vapor)	17.00

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. Harmful to aquatic life with long lasting effects (based on components)

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Ethylhexanoic acid 149-57-5	61: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 41: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	70: 96 h <i>Pimephales promelas</i> mg/L LC50	85.4: 48 h <i>Daphnia magna</i> mg/L EC50
4-Nonylphenol, branched, ethoxylated 127087-87-0	9.3-21.4: <i>daphnia magna</i> mg/L LC50	3.8-6.2: 96h <i>Pimephales promelas</i> mg/L LC50	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Ethylhexanoic acid 149-57-5	2.7

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal of wastes**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with federal, state and local regulations.

Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

ADR Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet