



MATERIAL SAFETY DATA SHEET

Ferro Corporation, Polymer Additives Division
 Walton Hills Operation
 7050 Krick Road
 Walton Hills, Ohio 44146-4494 USA

Emergency telephone number
 CHEMTREC: 1-800-424-9300

Plant Number: 1-216-750-6708

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Micro-Chek® 11S711
Chemical Family: Heterocyclic Mildewcides
CAS-No.: Mixture
Product code: 1035693

Date of Preparation: 02/01/2006

2. HAZARD IDENTIFICATION

Emergency Overview

Warning

Causes severe irritation of eyes, skin and mucous membranes. May be harmful by inhalation, ingestion, skin adsorption. May cause allergic skin reaction.

NFPA 704

Colour: Yellow
Physical state: Liquid
Odour: Mild

Health: 3
Fire: 1
Instability: 0

Potential Health Effects

Principle routes of exposure: Eye contact. Skin contact.

Eye contact: Severe eye irritation.

Skin contact: May cause moderate to severe irritation, burning, and dryness of the skin.

Inhalation: May be harmful by inhalation.

Ingestion: May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
4-Isothiazolin-3-one, 2-octyl	26530-20-1	4%
1,2 propylene glycol	57-55-6	1 - 5%

The specific chemical identities are being withheld as a trade secret (29CFR1910.1200).

4. FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Ingestion: Drink plenty of water. Do not induce vomiting without medical advice. Consult a physician.

Notes to physician: Treat symptomatically.

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Product name: Micro-Chek® 11S711

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5. FIRE-FIGHTING MEASURES

Flash point: 99 °C (210°F) Method: PMCC

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam.

Hazardous decomposition products: Sulphur oxides. Nitrogen oxides (NOx).

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

Unusual hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Wear personal protective equipment. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Dispose of promptly. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands thoroughly before eating, drinking or smoking.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

Components	OSHA	ACGIH
4-Isothiazolin-3-one, 2-octyl	Not established	Not established
1,2 propylene glycol	Not established	Not established

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Eye protection: Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.

Skin and body protection: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Hand protection: Impervious gloves.

Respiratory protection: Use NIOSH approved respirator when ventilation is inadequate.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are proximal to the work-station location. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Yellow	Appearance:	Clear
Physical state:	Liquid	Odour:	Mild
Molecular weight:	No data available	Boiling point/range (°C):	No data available
pH:	No data available	Specific gravity (Water =1):	0.970
Vapor pressure (mmHg):	No data available	Evaporation rate (Water =1):	< 1.00
Water solubility (mg/l):	Soluble	VOC content (%):	No data available

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Polymerization: Will not occur.

Hazardous decomposition products: None under normal use.

Materials to avoid: Strong oxidizing agents. Reducing agents.

Conditions to avoid: None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity No data is available on the product itself

12. ECOLOGICAL INFORMATION

Aquatic toxicity: Not determined

Persistence and degradability: Not determined

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration.

14. TRANSPORT INFORMATION

DOT (U.S.)

Proper shipping name: Not regulated.

TDG (Canada)

Proper shipping name: Not regulated.

15. REGULATORY INFORMATION

U.S. Regulations:

Not subject to the provisions of SARA 313 Title III

Not subject to TSCA 12(b) Export Notification

State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Components	State Regulations - NJ; PA; CA Prop65
1,2 propylene glycol	Listed (PARTK)

Canadian WHMIS

WHMIS hazard class: D1B Toxic materials .

Canadian Ingredient Disclosure List (IDL):

Components	WHMIS Ingredient Disclosure:
1,2 propylene glycol	1%

International Inventories

TSCA 8(b): Listed or exempt.
Canadian DSL: Listed or exempt.
EINECS Listed or exempt.
Phillipines (PICCS): Listed.
Japan (ENCS): Not listed.
Korea (KECL): Listed.
China (IECS): Listed.
Australia (AICS): Listed.

16. OTHER INFORMATION

For Industrial Use Only

HMIS

Health: 3

Fire: 1

Physical hazard: 0

PPE: X

Prepared by: Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

End of Safety Data Sheet

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