



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

Phone Number: 1-216-641-8580

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

Product Name: Micro-Chek® 11IPA 350 Lb Drm
Chemical Name: Heterocyclic Mildewcides
CAS-No.: Mixture
Product code: 1035690

Date of Preparation: 12/20/2006

2. HAZARD IDENTIFICATION

Emergency Overview

Danger

Flammable liquid and vapor. 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: Colorless to light yellow
Physical state: Liquid
Odour: Alcohol-like

Health: 2
Fire: 3
Instability: 0

Potential Health Effects

Principle routes of exposure: Eye contact. Skin contact. Skin absorption. Inhalation.

Eye contact: Severe eye irritation.

Skin contact: Contact causes severe skin irritation and possible burns.

Inhalation: May be harmful by inhalation. Irritating to respiratory system.

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Isopropanol	67-63-0	90 - 95%
4-Isothiazolin-3-one, 2-octyl	26530-20-1	4%
1,2 propylene glycol	57-55-6	1 - 5%

4. FIRST AID MEASURES

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

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, 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: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

5. FIRE-FIGHTING MEASURES

Flash point (°C): 12 °C (54°F) Method: PMCC

Flammable limits in air - lower (%): 2
Flammable limits in air - upper (%): 12.7

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

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NO_x). Sulphur oxides.

Special protective equipment for firefighters: Fire fighters should wear proper protective equipment. A self contained breathing apparatus should be used to avoid inhalation of the product.

Unusual hazards: Flash back possible over considerable distance. Vapors can form explosive mixtures at temperatures at or above the flash point.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Flammable liquid. Evacuate area of all unnecessary personnel. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. In case of insufficient ventilation, wear suitable respiratory 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: 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. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage: Keep containers tightly closed in a cool, well-ventilated place. Empty containers retain product residue and can be hazardous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

Components	OSHA	ACGIH
Isopropanol	400 ppm TWA 980 mg/m ³ TWA	200 ppm TWA 400 ppm STEL
4-Isothiazolin-3-one, 2-octyl	Not established	Not established
1,2 propylene glycol	Not established	Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Colorless to light yellow	Appearance:	Clear
Physical state:	Liquid	Odour:	Alcohol-like
Molecular weight:	No data available	Boiling point/range (°C):	82.3
pH:	No data available	Specific gravity (Water =1):	0.8041
Vapor pressure (mmHg):	No data available	Evaporation rate (Water =1):	> 1.00
Water solubility (mg/l):	Insoluble	VOC content (%)	No data available

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Polymerization: None under normal processing

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

Materials to avoid: Oxidizing agents. Reducing agents. Metals. Amines.

Conditions to avoid: Heat, flames and sparks.

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: Dispose of according to all federal, state and local applicable regulations. Where possible recycling is preferred to disposal or incineration.

14. TRANSPORT INFORMATION

DOT (U.S.)

UN/ID No: UN1219

Proper shipping name: Isopropanol mixture

U.S. DOT - Hazard Class: 3

Packing group: II

TDG (Canada)

Proper shipping name: Isopropanol mixture

Hazard class: 3

Packing group: II

15. REGULATORY INFORMATION

U.S. Regulations:

Not subject to TSCA 12(b) Export Notification

Components	SARA 313:
Isopropanol (90 - 95%)	1.0 percent de minimis concentration (only if manufactured by the strong acid process, no supplier 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)
Isopropanol	Listed (NJRTK)
	Listed (PARTK)

Canadian WHMIS

WHMIS hazard class: B2 Flammable liquid. D2A Very toxic materials.

Canadian Ingredient Disclosure List (IDL):**Components****WHMIS Ingredient Disclosure:**

1,2 propylene glycol	1%
Isopropanol	1%

International Inventories

TSCA 8(b): Listed or exempt.
Canadian DSL: Listed or exempt.
EINECS: Listed or exempt.
Phillipines (PICCS): Listed.
Japan (ENCS): Listed or exempt.
Korea (KECL): Listed.
China (IECS): Listed.
Australia (AICS): Listed.

16. OTHER INFORMATION**For Industrial Use Only****HMIS****Health: 2****Fire: 3****Physical hazard: 0****PPE: D****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