

Safety Data Sheet

Issued Date: June 11, 2015

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name F-116 Floor Shine Cleaner/Restorer

Other means of identification

Product Code F-116

Recommended use of the chemical and restrictions on use

Recommended Use Floor Shine Cleaner/Restorer

Details of the supplier of the safety data sheet

Missouri Vocational Enterprises
 2727 Highway K
 Bonne Terre, MO 63628
 Phone: (573) 358-5516

Emergency Telephone Number

INFOTRAC 1-800-535-5053 (North America)
 1-352-323-3500 (International)

2. HAZARDOUS IDENTIFICATION

Signal Word **WARNING**

Classification	Hazard Category
Skin - Corrosion/Irritation	1B
Serious Eye - Damage/Irritation	1
Acute Toxicity - Oral	5
Acute Toxicity - Dermal	5
Specific Target Organ Toxicity – Reproductive	2

Health Hazard Statement(s)

H303 – May be harmful if swallowed.
 H313 – May be harmful in contact with skin.
 H314 – Causes severe skin burns and eye damage.
 H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.
 H361 – Suspected of damaging fertility or the unborn child.
 H411 – Toxic to aquatic life with long-lasting effects.

Hazard Pictogram(s)



Hazard Ratings

	HMIS	NFPA
Health	1	1
Flammability	0	0
Reactivity	0	0
PPE	B	Yes

Precautionary Statement(s)

P201 – Obtain special instructions before use.
 P202 – Do not handle until all safety precautions have been read and understood.
 P261 – Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 – Wash skin thoroughly after handling.
 P272 – Contaminated work clothing should not be allowed out of the workplace.
 P273 – Avoid release to the environment.

P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P308 + P313 – IF exposed or concerned: Get medical advice/attention.

P310 – Immediately call a POISON CENTER or doctor/physician.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P363 – Wash contaminated clothing before reuse.

P391 – Collect spillage.

P405 – Store locked up.

P501 – Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Skin Contact May cause skin corrosion/ irritation.

Eye Contact May cause serious eye damage.

Inhalation May cause irritation.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name/Pure Substance	CAS #	Weight-%
Surfactant Blend	Proprietary	2-10
2-(2-methoxyethoxy)ethanol	111-77-3	0-2
Styrene Acrylic copolymer	Proprietary	0-2
Orange Terpenes	5989-27-5	0-1

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

General Advice If you feel unwell, seek medical advice (show label where possible).

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation Remove to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Ingestion Rinse mouth. Drink plenty of water after rinsing. Do NOT induce vomiting. Call a physician.

Most important symptoms and effects

Any additional important symptoms and effects are described in Section 11: Toxicology Information.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry powder, Foam, and anything suitable to the local circumstances.

Unsuitable Extinguishing Media: Water spray may be insufficient when fighting fire.

Specific Hazards Arising from the Chemical

Possible release of toxic gases from fire. Use water spray to cool unopened containers.

Protective equipment and precautions for firefighters

As in any fire, wear a 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 Ensure adequate ventilation, especially in confined areas.

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and clean up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean up Collect spillage with non-combustible absorbent material, (e.g. sand, earth, vermiculite) and place in a container for disposal according to local/national regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Do not store in heat or direct sunlight. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Engineering Controls Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitted safety goggles or face shield.

Skin and Body Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection In the case of vapor formation use a respirator with an approved filter.

General Hygiene Considerations Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Liquid	Odor	Citrus
Color	Clear	Odor Threshold	Not Determined

Property	Values	Remarks - Method
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pH	8-9
Melting Point/Freezing Point	Not available
Boiling Point/Boiling Range	212 °F (100 °C)
Flash Point	Not available
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not applicable- Liquid
Upper Flammability Limits	Not available
Lower Flammability Limits	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity	1.02
Water Solubility	Complete
Solubility in other solvents	Not available
Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Explosive Properties	Not available
Oxidizing Properties	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Extremes of temperatures and direct sunlight.
Incompatible materials	Amines, oxidizing agents, reducing agents.
Hazardous Decomposition Products	Hydrogen chloride gas, sulphur oxides, nitrogen oxides, carbon oxides.
Hazardous Polymerization	Not known to occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin. May be harmful in contact with skin.
Ingestion	May be harmful if swallowed. Do not taste or swallow.
Inhalation	Avoid breathing vapors or mists.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Surfactant Blend	= 1310 mg/kg (Rat) = 2590 mg/kg (Rat)	= 1780 µL/kg (Rabbit) = 2 mL/kg (Rabbit)	-
2-(2-methoxyethoxy)ethanol 111-77-3	= 4 mL/kg (Rat)	= 2500 µL/kg (Rabbit) = 650 mg/kg (Rabbit)	-
Orange Terpenes 5989-27-5	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

Floor Shine Cleaner/Restorer
Symptoms related to the physical, chemical, and toxicological characteristics

F-116

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Not available.

Carcinogenicity
Reproductive toxicity
Toxicological information

OSHA lists Orange Terpenes (5989-27-5) as a carcinogen.
Not available.
Not available.

12. ECOLOGICAL INFORMATION

Ectotoxicity

Component	Algae/aquatic plants	Fish	Crustacea
Surfactant Blend	-	5: 96 h Fish mg/L LC50	-
2-(2-methoxyethoxy)ethanol 111-77-3	500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	7500: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 7500: 96 h <i>Lepomis macrochirus</i> mg/L LC50 5741: 96 h <i>Pimephales promelas</i> mg/L LC50	500: 48 h <i>Daphnia magna</i> mg/L EC50
Orange Terpenes 5989-27-5	-	0.619-0.796: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 35: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50	-
Methyl Chloro Isothiazolinone 26172-55-4	0.11-0.16: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static 0.03-0.13: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static 0.31: 120 h <i>Anabaena flos-aquae</i> mg/L EC50	1.6: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 semi-static	4.71: 48 h <i>Daphnia magna</i> mg/L EC50 0.12-0.3: 48 h <i>Daphnia magna</i> mg/L EC50 flow-through 0.71-0.99: 48 h <i>Daphnia magna</i> mg/L EC50 static
Magnesium Chloride 7786-30-3	2200: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	1970-3880: 96 h <i>Pimphales promelas</i> mg/L LC50 static 4210: 96 h <i>Gambusia affinis</i> mg/L LC50 static	140: 48 h <i>Daphnia magna</i> mg/L EC50 static 1400: 24 h <i>Daphnia magna</i> mg/L EC50

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Other adverse effects Not available.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions Dispose of in accordance with local regulations.

Hazardous Waste Code D002

Waste from residues / unused products The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations. Material to be disposed of has a reportable quantity of 100 lbs. of total isothiazolinone.

Contaminated Packaging Do not reuse container. Dispose of as unused product.

16. OTHER INFORMATION**Disclaimer**

The information provided in this 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 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.

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