

**SPARTAN CHEMICAL COMPANY, INC.
WHMIS MATERIAL SAFETY DATA SHEET**

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER

ISHINE

PRODUCT USE: High Solids Floor Finish

MANUFACTURER'S NAME & ADDRESS

Spartan Chemical Company, Inc.
1110 Spartan Drive, Maumee, OH 43537 USA

MEDICAL EMERGENCY TELEPHONE

888/314-6171 (24 Hours)

PRODUCT INFORMATION

800/537-8990

SECTION II: HAZARDOUS INGREDIENTS

CAS REGISTRY NO.	% W	CHEMICAL NAME(S)	TLV			LD50	LC50
			TWA mg/m ³	STEL mg/m ³	Ceiling mg/m ³		
Proprietary	15-20	Acrylic polymer	----	Not Established	----	Not available	Not available
Proprietary	1-5	Styrene /Acrylic copolymer	----	Not Established	----	Not available	Not available
78-51-3	1-5	Tributoxyethyl phosphate	----	Not Established	----	Not available	Not available
34590-94-8	1-5	Dipropylene glycol methyl ether	600 (skin)	909 (ACGIH)	----	Not available	Not available
111-90-0	1-5	Diethylene glycol monoethyl ether	140 (AIHA)	----	----	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT 100 °C (212°F)	SPECIFIC GRAVITY (H₂O = 1) 1.037	PERCENT SOLID BY WEIGHT 25-35
VAPOUR PRESSURE Not established	EVAPORATION RATE (butyl acetate = 1) < 1	FREEZING POINT Not available
VAPOUR DENSITY (AIR = 1) Not established	SOLUBILITY IN WATER Complete	ODOUR THRESHOLD Not available
pH 8.0 - 9.0	APPEARANCE AND ODOUR Translucent emulsion, slight ammoniacal odor	PHYSICAL STATE GAS__ LIQUID <u>X</u> SOLID____
COEFFICIENT OF WATER/OIL DISTRIBUTION Not available		

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT > 100 °C (212°F)	METHOD USED ASTM - D56	FLAMMABLE LIMITS Not established
EXTINGUISHING MEDIA Water, CO2 or dry chemical	CONDITIONS OF FLAMMABILITY Not applicable	AUTO-IGNITION TEMPERATURE Not applicable
HAZARDOUS COMBUSTION PRODUCTS Not established		EXPLOSION DATA Not applicable
SPECIAL FIRE FIGHTING PROCEDURES None		
UNUSUAL FIRE AND EXPLOSION HAZARDS None known		

SECTION V: REACTIVITY DATA

STABILITY: STABLE X **CONDITIONS OF INSTABILITY** **CONDITIONS OF REACTIVITY**
Not established Not established
INCOMPATIBILITY (MATERIALS TO AVOID) Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation, Skin Absorption
EXPOSURE LIMIT Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:

EYE CONTACT Causes mild eye irritation.

INGESTION Harmful if swallowed.

SKIN CONTACT May cause skin irritation

INHALATION Breathing vapors may cause respiratory irritation, headache and nausea.

EFFECTS OF CHRONIC EXPOSURE

This product contains diethylene glycol monoethyl ether which may cause headache, nausea, dizziness and liver / kidney impairment.

This product contains tributoxyethyl phosphate which may cause nervous system effects.

IRRITANCY OF PRODUCT

Mild eye & skin irritant

SENSITIZATION TO PRODUCT

Not available

CARCINOGENICITY

No

REPRODUCTIVE TOXICITY

Not available

TERATOGENICITY

Not available

MUTAGENICITY

Not available

SYNERGISTIC PRODUCTS

Not available

SECTION VII: PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS

Wear impervious rubber gloves and splash goggles or safety glasses when product contact or splashing is possible. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If exposure limits (see Section II) can not be maintained by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered.

LEAK AND SPILL PROCEDURE Small quantities may be flushed into sanitary sewer. Larger quantities should be picked up with inert absorbent material and disposed on in accordance with applicable regulations.

WASTE DISPOSAL METHOD Assure conformance with applicable regulations.

HANDLING PROCEDURES Avoid contact with eyes, skin or clothing. Avoid breathing product vapors or mist. Use with adequate ventilation. Do not taste or swallow. Wash thoroughly after handling.

STORAGE REQUIREMENTS Keep container closed when not in use. Do not freeze. Do not store above 49°C (120°F). Keep out of reach of children.

SPECIAL SHIPPING INFORMATION None, Shipping Description: Non Hazardous Products

SECTION VIII: FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

SKIN: Remove contaminated clothing. Flush skin with water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

INGESTION: Do not induce vomiting unless advised to do so by a doctor or poison control center. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

INHALATION: In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

SECTION IX: PREPARATION INFORMATION

ISHINE

DATE OF PREPARATION June 1, 2015

SUPERCEDES: June 8, 2012

APPROVED BY Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

TELEPHONE NUMBER 800/537-8990