

## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Name:** MS-452N  
Protective Varnish

**Product Use:** Varnish Protective Coating

### **MANUFACTURER/DISTRIBUTOR:**

Miller-Stephenson Chemical  
55 Backus Ave.  
Danbury, Conn. 06810 USA  
(203) 743-4447

**Emergency Phone Number:**  
(800) 424-9300

## 2. HAZARDS IDENTIFICATION

### **Hazard classification**

Flammable liquids: Category 3  
Germ cell mutagenicity: Category 1B  
Carcinogenicity: Category 1B  
Reproductive toxicity: Category 2  
Specific Target Organ Toxicity (repeated exposure): Category 2  
Aspiration toxicity: Category 1  
Skin corrosion/irritation: Category 2  
Skin sensitization: Category 1  
Hazardous to the aquatic environment, acute hazard: Category 3

### **Label elements:**

#### **Signal word**

Danger

#### **Pictograms**



### **Hazard Statements**

H226 Flammable liquid and vapor.  
H340 May cause genetic defects  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H402 Harmful to aquatic life.

### **Precautionary Statements - Prevention**

Obtain special instructions before use.  
Do not handle after all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe mist/vapors/spray.  
Wash skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

### **Precautionary Statements - Response**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
Do NOT induce vomiting.  
IF ON SKIN (of hair): Remove immediately contaminated clothing. Rinse skin with water/shower.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Take off contaminated clothing and wash before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
In case of fire: Use CO2, dry chemical, or water spray to extinction.  
Store in a well-ventilated, cool place. Keep container tightly closed.  
Dispose of contents/ container in accordance with local/regional/national/international regulations.

## **3. INGREDIENTS**

| <b><u>Material (s)</u></b>   | <b><u>CAS No.</u></b> | <b><u>Approximate %</u></b> |
|------------------------------|-----------------------|-----------------------------|
| Xylene                       | 1330-20-7             | 25 – 50                     |
| Ethylbenzene                 | 100-41-4              | 2 – 10                      |
| 2-butanone oxime             | 96-29-7               | 0.1 – 1.0                   |
| Toluene                      | 108-88-3              | 0.1 – 2.5                   |
| Stoddard Solvent             | 8052-41-3             | 0.1 – 2.5                   |
| Tris (nonylphenyl) phosphite | 26523-78-4            | 0.1 – 0 .25                 |
| folpet                       | 133-07-3              | 0.1 – 0 .25                 |

## **4. FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Get medical attention.

**Eye:** Flush eyes with plenty of water, lifting lower and upper eyelids. Consult a physician if symptoms persist.

**Skin:** Immediately remove any clothing that is soiled. Immediately wash skin with plenty of water and soap and rinse thoroughly.

**Oral:** If swallowed, call a physician or poison control center immediately.

**Notes to Physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** 81°F/27°C

**Autoignition Temperature:** 430°C (806°F)

**Flammable Limits in Air, % by Vol.:** Upper limit: 7.8%  
Lower limit: 1%

**Suitable Extinguishing Media:** Use CO<sub>2</sub>, extinguishing powder, water spray. For large fires use water spray or alcohol resistant foam.

**Unsuitable extinguishing media:** Water with full jet.

**Special hazards:** The product is flammable. Closed containers may rupture when exposed to extreme heat. Vapor can travel to a source of ignition such as spark or flame and flash back.

**Special Fire Fighting Instruction:** Use personal protective equipment as required. In the event of fire and/or explosion do not breath vapors. Wear self-contained breathing apparatus for fire fighting if necessary. Wear fire/flame resistant/retardant clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Wear protective equipment. Keep unprotected persons away.

**Environmental Precautions:** Contain liquid to prevent contamination of soil, surface water or ground water. Avoid runoff into storm sewers and ditches, which lead to waterways. Do not flush to sewer.

**Methods and material for containment and cleaning up:** Absorb spill with dry inert material (e.g. dry sand or earth), then place in a properly labeled chemical waste container. Immediately notify authorities of any reportable spill as may be required pursuant to regulations. Prevent further leakage or spillage, if safe to do so.

## 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Ensure good ventilation. Keep ignition sources – Do not smoke. Prevent electrostatic charges. Use appropriate respiratory protection when ventilation is inadequate.

**Storage Conditions:** Store in cool, dry, and well-ventilated place. Keep containers tightly closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| <u>Exposure Limits:</u> | <u>TLV (ACGIH)</u> | <u>PEL (OSHA)</u> |
|-------------------------|--------------------|-------------------|
| Xylene                  | 100 ppm            | 100 ppm           |
| Ethylbenzene            | 20 ppm             | 100 ppm           |
| 2-butanone oxime        | Not Established    | Not Established   |
| Toluene                 | 20 ppm             | 200 ppm           |
| Stoddard Solvent        | 100 ppm            | 500 ppm           |

**Engineering Controls:** Exhaust ventilation. Showers. Eyewash stations. Use in a well-ventilated area.

**Individual protection measures, such as personal protective equipment:**

Recommend evaluation and selection of appropriate engineering controls (such as ventilation and eyewash/safety shower) as well as appropriate personal protective equipment (such as respiratory protection, protective gloves, eye protection) for safely handling this material. The following guidelines should be considered in this process.

**Respiratory Protection:** Use only in a well-ventilated area. Use localized mechanical ventilation. Use approved NIOSH respiratory protection if TLV exceeded, or over exposure is likely.

**Eye Protection:** Wear appropriate protective glasses or splash goggles. Face shield.

**Skin Protection:** Avoid contact with skin. Use chemically resistant gloves according to the glove manufacturer and observe the break through time. Wear suitable protective clothing to prevent contact with skin.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point:** 136°C (277°F)

**Percent Volatile by Volume:** N.A.

**Specific Gravity:** Not determined

**Vapor Pressure:** 7.1 mmHg @ 20°C (68°F)

**Vapor Density (Air=1):** Not determined

**Solubility in H<sub>2</sub>O:** Not miscible

**pH Information:** Not determined

**Evaporation Rate (CC14=1):** Not determined

**Form:** Liquid

**Appearance:** Amber Liquid

**Color:** Amber

**Odor:** Aromatic

**10. STABILITY AND REACTIVITY**

**Reactivity:** No data available.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Material and Conditions to Avoid:** No information available.

**Decomposition:** No dangerous decomposition products known.

**11. TOXICOLOGICAL INFORMATION**

**Ethylbenzene**

**Oral:** LD50: 3500 mg/kg in rat

**Dermal:** LD50: 17,800 mg/kg in rabbit

## **Xylene**

**Oral:** LD50: 4300 mg/kg in rat

**Dermal:** LD50: 2000 mg/kg in rabbit

## **2-butanone oxime**

**Oral:** LD50: 3700 mg/kg in rat

**Dermal:** LD50: 200 – 2000 mg/kg in rabbit

**Inhalation:** 4 hour LC50: 20 mg/l in rat

## **Toluene**

**Oral:** LD50: 5000 mg/kg in rat

**Dermal:** LD50: 12,124 mg/kg in rabbit

**Inhalation:** 4 hour LC50: 2 mg/l in mouse

### **Primary irritant effect:**

**On the skin:** Irritant to skin and mucous membranes.

**In the eye:** No irritating effect.

**Sensitization:** Sensitization possible through skin contact.

**Carcinogenicity:** Ethylbenzene is considered a Group 2B carcinogen, according to IARC. Xylene is considered a Group 3 carcinogen, according to IARC. Toluene is considered a Group 3 carcinogen, according to IARC.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No information available.

## **13. DISPOSAL CONSIDERATIONS**

Comply with federal, state and local regulations. Arrange disposal by a licensed waste disposal company.

## **14. TRANSPORT INFORMATION**

### **U.S. DOT**

**Proper Shipping Name:** Paint

**Hazard Class:** 3

**UN#:** 1263

**Packing Group:** III

### **IATA**

**Proper Shipping Name:** Paint

**Hazard Class:** 3

**UN#:** 1263

**Packing Group:** III

**IMDG**

**Proper Shipping Name:** Paint

**Hazard Class:** 3

**UN#:** 1263

**Packing Group:** III

**15. REGULATORY INFORMATION**

**TSCA:** All ingredients are listed in TSCA inventory.

**State Regulations (U.S.)**

**California Proposition 65:** This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

**16. OTHER INFORMATION**

**FOR INDUSTRIAL USE ONLY**

**REVISION DATE: DECEMBER 2021**

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 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. Final determination of suitability of any material is the sole responsibility of the user.