

MATERIAL SAFETY DATA SHEET

Manufacturer's Code: 5514

Monarch Paint Company

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Product Description: RED OXIDE SHOP COAT PRIMER

Date: 04/04/2001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Description: RED OXIDE SHOP COAT PRIMER
 Manufacturer's Code: 5514
 Manufacturer: Monarch Paint Company
 3530 Lang Road
 Houston, TX 77092
 Information 8am - 5pm EST: 713-681-1868
 Emergency Telephone Number: 713-681-1868
 CHEMTREC #: 800-424-9300

2. OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

| Component | Wt % | CAS Registry # |
|-----------------------------|-------|----------------|
| Solvent Naphtha | 10-20 | 064742-89-8 |
| Aromatic Hydrocarbon | 01-10 | 064742-94-5 |
| Methyl Alcohol | 01-10 | 000067-56-1 |
| Methyl Ethyl Ketone | 01-10 | 000078-93-3 |
| Toluene | 10-20 | 000108-88-3 |
| 2-Butoxyethanol | 01-10 | 000111-76-2 |
| Xylene | 01-10 | 001330-20-7 |
| Iron Oxide Red | 01-10 | 001332-37-2 |
| Mineral Spirits | 01-10 | 008052-41-3 |
| Crystalline Silica - Quartz | 00-01 | 014808-60-7 |

EXPOSURE LIMITS (ppm)

| Component | ACGIH TLVs | | OSHA PELs | |
|-----------------------------|------------|--------|-----------|---------|
| | TWA | STEL | TWA | STEL |
| Solvent Naphtha | 300 | N/E | 300 | 400 S |
| Aromatic Hydrocarbon | N/E | N/E | 100 | N/E R |
| Methyl Alcohol | 200 | 250 S+ | 200 | N/E |
| Methyl Ethyl Ketone | 200 | 300 | 200 | N/E S |
| Toluene | 50 | N/E | 200 | C300 S+ |
| 2-Butoxyethanol | 25 | N/E | 50 | N/E S+ |
| Xylene | 100 | 150 | 100 | N/E S |
| Iron Oxide Red | 5mg/m3 | N/E | 10mg/m3 | N/E S |
| Mineral Spirits | 100 | N/E | 500 | N/E S |
| Crystalline Silica - Quartz | 0.1mg/m3* | N/E | 0.1mg/m3* | N/E S |

(M) Maximum Exposure Limit
 (S) Occupational Exposure Standard
 (R) Supplier's Recommended Limit
 (+) There is a risk of absorption through unbroken skin.
 (*) Respirable fraction.
 (C) Ceiling

3. HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE:

INHALATION:

Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.
 Causes lung irritation.
 Causes nose and throat irritation.

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: Harmful if absorbed through skin.

Causes skin irritation.

INGESTION: Harmful if swallowed.

CHRONIC OVEREXPOSURE: Cannot be made non-poisonous.

Contains 2-butoxyethanol which may cause blood damage based on animal data.

In a two year NTP inhalation study, there was no significant increase in the incidence of any type of tumor in rats exposed to 2-butoxy ethanol at concentrations up to 125 ppm except a questionable trend in the incidence of adrenal gland tumors in female rats. When mice were exposed to concentrations of 62.5, 125, and 250 ppm, there was some evidence of carcinogenicity found in the liver of male mice and the forestomach of female mice at 250 ppm. The relevance of these findings to humans is unclear.

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as crystalline silica. The TLV is set to protect against siderosis.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Cancer hazard. Contains Crystalline silica which can cause cancer.

Risk of cancer depends on duration and level of exposure to dust from sanding surfaces or spray mist. Overexposure may cause lung and kidney damage.

Contains an ingredient listed as known or suspected carcinogen?

NTP: Yes

OSHA: No

IARC: Yes

4. FIRST AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

INHALATION:

If affected by inhalation of vapor or spray mist, remove to fresh air.

EYE CONTACT:

Flush immediately with plenty of water for 15 minutes until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and wash before reuse. If irritation persists, get medical attention.

INGESTION:

If swallowed, gently wipe out inside mouth to remove any residual material. Do not induce vomiting. Get medical attention immediately.

5. FIRE AND EXPLOSION DATA

Flashpoint: 79 F 26.1085 C

OSHA Classification: Flammable Liquid - Class IC

FIRE AND EXPLOSION HAZARDS:

Isolate from heat, sparks, electrical equipment and open flame.
 Closed containers may explode when exposed to extreme heat. In the absence of electricity, a water spray (a fog nozzle is preferred) may be used to cool containers. Decomposition and combustion products may be toxic.

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Absorb spill with an inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

GENERAL:

Keep container closed. Loosen closure cautiously before opening. Store in a cool, well ventilated place away from incompatible materials. (See Stability and Reactivity Section 10.) Protect material from direct sunlight. Ground and bond containers when transferring materials. Empty containers may retain hazardous properties. Follow all MSDS/label warnings, even after the container is emptied.

PRECAUTIONS: This product may contain materials classified as nuisance particulates which may be present at hazardous levels during sanding or abrading of the dried film. Occupational exposure values are as follows: ACGIH TLV TWA-10mg/m3 (total dust), 3mg/m3 (respirable fraction), OSHA PEL TWA-15mg/m3 (total dust), 5mg/m3 (respirable fraction). Refer to section 2 for compound specific exposure limits.

If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component(s) prior to use. Any mixture of components will have hazards of all components.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide sufficient ventilation, in volume and pattern, to:

- keep the TLV of the hazardous ingredients below the limits specified in Section Two.
- remove volatiles produced during cure and decomposition products produced during welding or cutting on surfaces coated with this product.

RESPIRATOR:

If personal exposure cannot be controlled below exposure limits listed in Section 2 of this MSDS, use a respirator approved by the National Institute for Occupational Safety and Health (NIOSH) of the Department of Health and Human Services and in accordance with 29CFR 1910.134 to remove particulates (and vapors if there is

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overexposure to vapors generated during use or following the application of this product).

PROTECTIVE EQUIPMENT:

CLOTHING: As needed, use body protection to avoid contact with product.

EYE: Safety glasses, chemical goggles and/or a face shield should be worn to prevent eye contact.

GLOVES: Wear chemical resistant gloves.

SPECIAL PRECAUTIONS:

This product contains Crystalline Silica which can cause adverse health effects when respired. Recommended use of this product is not expected to create such an exposure risk. If sanding of dried coating is performed, engineering and administrative controls must be used to maintain an exposure level below the applicable PEL, or an appropriate NIOSH approved respirator must be used for protection. Crystalline Silica may aggravate existing respiratory conditions. Smoking aggravates the effects of exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Weight per Gallon: 9.836

Physical State: liquid

Percent Volatile by Volume: 74.9

Evaporation Rate: Slower than ether

Vapor Density: Heavier than air

10. STABILITY AND REACTIVITY

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION:

May produce hazardous fumes when heated to decomposition as in welding. Carbon Dioxide and Carbon Monoxide fumes may be produced.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.

Do not incinerate unopened containers.

14. TRANSPORT INFORMATION (GROUND SHIPMENTS)

Proper Shipping Name: Paint

Hazard Class: Flammable Liquid, 3

UN Number: UN1263

Packing Group: Packing Group III

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act):

All components of this product are either listed or are exempt from listing on the TSCA Inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

313 Reportable Chemicals:

None Known unless specified below.

000067-56-1 Methyl Alcohol

000078-93-3 Methyl Ethyl Ketone

000108-88-3 Toluene

000111-76-2 2-Butoxyethanol

001330-20-7 Xylene

CALIFORNIA PROPOSITION 65: None Known unless specified below.

Warning: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

Warning: This product contains a chemical(s) known to the State of California to cause cancer.

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

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