Material Safety Data Sheet

Preparation Date: 30-Dec-2009 **Revision Date:** 29-Dec-2009 **Revision Number:** 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code V010-0099
Trade Name TNEMEC PRIMERS RED

Contact Manufacturer Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
Emergency Telephone Number 800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT: 816-474-3400

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING!

COMBUSTIBLE LIQUID AND VAPOR.
HARMFUL IF INHALED.
HARMFUL OR FATAL IF SWALLOWED.
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE EYE INJURY.

Potential Health Effects

Principle Routes of Exposure Eye contact, Inhalation, Skin contact.

Acute Effects

Eyes May cause eye injury. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Skin Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Inhalation Irritating to respiratory system. Blood disorder may occur after prolonged inhalation. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Exposure of sufficient duration to wet cement, or to dry cement on moist areas of the body, can cause serious, potentially irreversible tissue (skin, eye, respiratory tract) damage due to chemical (caustic) burns, including third degree burns.

Ingestion May be harmful if swallowed. Blood disorder may occur after ingestion.

Chronic Effects

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.)

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Central nervous system. Gastrointestinal tract. Kidney disorders. Liver disorders. Skin disorders.

Interactions with Other Chemicals Use of alcoholic beverages may enhance toxic effects.

Potential Environmental Effects See Section 12 for additional Ecological information

Target Organ Effects Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Gastrointestinal tract, Central Vascular System, Lungs

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Component	CAS-No	Weight %
MINERAL SPIRITS, AS STODDARD SOLVENT	8052-41-3	21.4557
BARIUM SULFATE (TOTAL DUST)	7727-43-7	10 - 30
TALC (RESPIRABLE DUST)	14807-96-6	10 - 30
IRON OXIDE FUME	1309-37-1	5 - 10
PROPRIETARY PIGMENT (NUISANCE DUST)		5 - 10
CALCIUM SILICATES AND ALUMINATES	65997-15-1	5 - 10
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	4.1439
ZINC COMPOUNDS	1314-13-2	1 - 5
IRON OXIDE FUME	1309-37-1	1 - 5
AMORPHOUS SILICA	7631-86-9	1 - 5
ALUMINUM OXIDES	1344-28-1	0.1 - 1

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water.

Ingestion If swallowed, do not induce vomiting. Get medical attention immediately.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed.

5. FIRE-FIGHTING MEASURES

Flammable Properties Combustible material.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Contact with water may cause violent frothing. Use: Carbon dioxide (CO2) - Foam - Dry chemical

Hazardous Decomposition Products Oxides of carbon, hydrocarbons.

Specific Hazards Arising from the Chemical
DANGER - CERTAIN COLORS CONTAIN LINSEED OIL. RAGS AND OTHER COMBUSTIBLE ITEMS SOILED WITH LINSEED OIL REPRESENT A SPONTANEOUS COMBUSTION HAZARD. TO AVOID SPONTANEOUS COMBUSTION, SOAK SOILED RAGS AND WASTE IMMEDIATELY AFTER USE IN A WATER-FILLED, CLOSED METAL CONTAINER.

Protective Equipment and Precautions for Firefighters
Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. May cause heat and pressure build-up in closed containers. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for Cleaning Up If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Soak up with inert absorbent material.

Other Information Not applicable

7. HANDLING AND STORAGE

Handling

Close container after each use. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

Storage

Keep away from heat, sparks and flame. Use only in an area containing flame proof equipment. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	Quebec TWAEV	Ontario TWAEV	Mexico OEL (TWA)
MINERAL SPIRITS, AS STODDARD SOLVENT	TWA: 100 ppm	TWA: 100 ppm TWA: 525 mg/m^3 TWA: 2900 mg/m^3 TWA: 500 ppm	TWA: 525 mg/m^3 TWA: 100 ppm	TWA: 525 mg/m^3	TWA: 523 mg/m^3 TWA: 100 ppm STEL: 1050 mg/m^3 STEL: 200 ppm
BARIUM SULFATE (TOTAL DUST)	TWA: 10 mg/m^3 TWA: 0.5 mg/m^3	TWA: 5 mg/m^3 TWA: 10 mg/m^3 TWA: 15 mg/m^3	TWA: 10 ppm TWA: 5 ppm TWA: 0.5 mg/m^3	TWA: 10 mg/m^3	TWA: 0.5 mg/m^3
TALC (RESPIRABLE DUST)	TWA: 2 mg/m^3	TWA: 2 mg/m^3	TWA: 3 mg/m^3	TWA: 2 mg/m^3	TWA: 2 mg/m^3
IRON OXIDE FUME	TWA: 1 mg/m^3 TWA: 5 mg/m^3	TWA: 10 mg/m^3	TWA: 1 mg/m^3 TWA: 5 mg/m^3	TWA: 5 mg/m^3	TWA: 1 mg/m^3 TWA: 5 mg/m^3 STEL: 10 mg/m^3 STEL: 2 mg/m^3
CALCIUM SILICATES AND ALUMINATES	TWA: 10 mg/m^3	TWA: 10 mg/m^3 TWA: 5 mg/m^3 TWA: 15 mg/m^3	TWA: 10 mg/m^3 TWA: 5 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3 STEL: 20 mg/m^3
CRYSTALLINE SILICA (QUARTZ)	TWA: 0.025 mg/m^3	TWA: 0.1 mg/m^3	TWA: 0.1 mg/m^3	TWA: 0.10 mg/m^3	TWA: 0.1 mg/m^3
ZINC COMPOUNDS	TWA: 2 mg/m^3 STEL: 10 mg/m^3	TWA: 5 mg/m^3 TWA: 10 mg/m^3 STEL: 10 mg/m^3 TWA: 15 mg/m^3	TWA: 10 mg/m^3 TWA: 5 mg/m^3 STEL: 10 mg/m^3	TWA: 2 mg/m^3 STEL: 10 mg/m^3	TWA: 5 mg/m^3 TWA: 10 mg/m^3 STEL: 10 mg/m^3
IRON OXIDE FUME	TWA: 1 mg/m^3 TWA: 5 mg/m^3	TWA: 10 mg/m^3	TWA: 1 mg/m^3 TWA: 5 mg/m^3	TWA: 5 mg/m^3	TWA: 1 mg/m^3 TWA: 5 mg/m^3 STEL: 10 mg/m^3 STEL: 2 mg/m^3
ALUMINUM OXIDES	TWA: 1 mg/m^3	TWA: 10 mg/m^3 TWA: 5 mg/m^3 TWA: 15 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Skin Protection Lightweight protective clothing, Apron, Impervious gloves

Eye/face Protection Safety glasses with side-shields

Respiratory Protection **Use only with adequate ventilation.** Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	38°C / 100.0°F
Boiling Point/Range	154 - 202°C / 310.0 - 395.0°F
Upper Exposure Limits	No information available
Lower Exposure Limits	No information available
Evaporation Rate	No information available
Vapour Pressure	No information available
Vapour Density	No information available
Specific Gravity	1.52581
Density	12.69704
VOC Content (lbs/gal)	2.774
% Volatile by Weight	21.8450
% Volatile by Volume	42.8102

10. STABILITY AND REACTIVITY

Chemical stability Stable.

Conditions to Avoid Heat, flames and sparks.

Incompatible Products Strong oxidizing agents. Acids.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
IRON OXIDE FUME	10000 mg/kg (Rat)		
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg (Rat)		
ZINC COMPOUNDS	5000 mg/kg (Rat)		
IRON OXIDE FUME	10000 mg/kg (Rat)		
AMORPHOUS SILICA	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.2 mg/L (Rat) 1 h
ALUMINUM OXIDES	5000 mg/kg (Rat)		

Irritation No information available

Corrosivity No information available

Sensitization No information available

Chronic Toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Mexico
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	

Mutagenic Effects No information available
Reproductive Effects No information available
Developmental Effects No information available
Teratogenicity No information available
Target Organ Effects Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system, Gastrointestinal tract, Central Vascular System, Lungs.
Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
TALC (RESPIRABLE DUST)		LC50> 100 g/L Brachydanio rerio 96 h		
AMORPHOUS SILICA	EC50 = 440 mg/L 72 h	LC50= 5000 mg/L Brachydanio rerio 96 h		EC50 = 7600 mg/L 48 h

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.
Proper Shipping Name PAINT IN OIL

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Does not Comply

EINECS/ELINCS Does not Comply
CHINA Does not Comply
ENCS Does not Comply
KECL Does not Comply
PICCS Does not Comply
AICS Does not Comply

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
ZINC COMPOUNDS	1314-13-2	1 - 5	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ZINC COMPOUNDS		X		

CERCLA

U.S. State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
MINERAL SPIRITS, AS STODDARD SOLVENT	X	X	X		X
BARIUM SULFATE (TOTAL DUST)	X	X	X		X
TALC (RESPIRABLE DUST)	X	X	X		X
IRON OXIDE FUME	X	X	X		X
CALCIUM SILICATES AND ALUMINATES	X	X	X		X
CRYSTALLINE SILICA (QUARTZ)	X	X	X		X
ZINC COMPOUNDS	X	X	X		X
IRON OXIDE FUME	X	X	X		X
AMORPHOUS SILICA	X		X		
ALUMINUM OXIDES	X	X	X		X

Other International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
B3 Combustible liquid
D2B Toxic materials

Component	NPRI
MINERAL SPIRITS, AS STODDARD SOLVENT	Part 5 Substance
ALUMINUM OXIDES	Part 1, Group 1 Substance (fibrous form)

Legend
NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date: 29-Dec-2009

Revision Summary No information available

HMIS **Health** 0 **Flammability** 0 **Reactivity** 1

Disclaimer
For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.
To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS