



Material Safety Data Sheet

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Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Common name	SERIES 10
Product code	F010-0099
Trade name	TNEMEC PRIMER RED
Product Class	MODIFIED ALKYD PAINT
Manufacturer	Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
Emergency telephone	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. 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.

See Section 11 for additional Toxicological information.

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

Interactive effects	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 (CVS), Lungs

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Component	CAS-No	Weight %
MINERAL SPIRITS (STODDARD SOLVENT)	8052-41-3	10 - 30
ALKYD RESIN		10 - 30
TALC (RESPIRABLE DUST)	14807-96-6	10 - 30
CALCIUM SILICATES AND ALUMINATES	65997-15-1	5 - 10
IRON OXIDE FUME	1309-37-1	5 - 10
PROPRIETARY PIGMENT (NUISANCE DUST)		5 - 10
CHLORINATED PARAFFIN	63449-39-8	1 - 5
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	1 - 5
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 (CO ₂) - 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 (STODDARD SOLVENT)	: 100 ppm TWA	: 100 ppm TWA; 525 mg/m ³ TWA : 500 ppm TWA; 2900 mg/m ³ TWA	TWA: 100 ppm TWAEV; 525 mg/m ³ TWAEV	TWA: 525 mg/m ³ TWA (140°C Flash aliphatic solvent)	: 100 ppm TWA; 523 mg/m ³ TWA : 200 ppm STEL; 1050 mg/m ³ STEL
TALC (RESPIRABLE DUST)	: 2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	: 2 mg/m ³ TWA (<1% Crystalline silica, containing no Asbestos, respirable dust)	TWA: 3 mg/m ³ TWAEV (respirable dust)	TWA: 2 mg/m ³ TWA (containing no Asbestos and <1% Crystalline silica, respirable)	: 2 mg/m ³ TWA (respirable fraction)
CALCIUM SILICATES AND ALUMINATES	: 1 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) : 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	TWA: 10 mg/m ³ TWAEV (total dust, containing no Asbestos and <1% Crystalline silica); 5 mg/m ³ TWAEV (respirable dust, containing no Asbestos and <1% Crystalline silica)	TWA: 10 mg/m ³ TWA (containing no Asbestos and <1% Crystalline silica, total dust)	: 10 mg/m ³ TWA : 20 mg/m ³ STEL
IRON OXIDE FUME	: 5 mg/m ³ TWA (respirable fraction)	: 10 mg/m ³ TWA (fume)	TWA: 5 mg/m ³ TWAEV (dust and fume, as Fe)	TWA: 5 mg/m ³ TWA (respirable)	: 5 mg/m ³ TWA : 10 mg/m ³ STEL (as Fe)
CRYSTALLINE SILICA (QUARTZ)	: 0.025 mg/m ³ TWA (respirable fraction)	: 0.1 mg/m ³ TWA (respirable dust)	TWA: 0.1 mg/m ³ TWAEV (respirable dust)	TWA: 0.10 mg/m ³ TWA (designated substance regulation, respirable)	: 0.1 mg/m ³ TWA (respirable fraction)

ZINC COMPOUNDS	: 2 mg/m ³ TWA (respirable fraction) : 10 mg/m ³ STEL (respirable fraction)	: 5 mg/m ³ TWA (fume); 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) : 10 mg/m ³ STEL (fume) : 5 mg/m ³ TWA (fume); 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	TWA: 10 mg/m ³ TWAEV (total dust, containing no Asbestos and <1% Crystalline silica); 5 mg/m ³ TWAEV (fume) STEL: 10 mg/m ³ STEV (fume)	TWA: 2 mg/m ³ TWA (respirable) STEL: 10 mg/m ³ STEL (respirable)	: 5 mg/m ³ TWA (fume); 10 mg/m ³ TWA (dust) : 10 mg/m ³ STEL (fume)
IRON OXIDE FUME	: 5 mg/m ³ TWA (respirable fraction)	: 10 mg/m ³ TWA (fume)	TWA: 5 mg/m ³ TWAEV (dust and fume, as Fe)	TWA: 5 mg/m ³ TWA (respirable)	: 5 mg/m ³ TWA : 10 mg/m ³ STEL (as Fe)
ALUMINUM OXIDES	TWA: 1 mg/m ³	: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) : 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	TWA: 10 mg/m ³ TWAEV (total dust, containing no Asbestos and <1% Crystalline silica, as Al)	TWA: 10 mg/m ³	: 10 mg/m ³ TWA

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 range	154 - 202°C / 310.0 - 395.0°F
Upper explosion limit	No information available
Lower explosion limit	No information available
Evaporation rate	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.44397 g/cm ³
Density	12.01600 lbs/gal
Volatile organic compounds (VOC) content	2.885 lbs/gal
Volatile by weight	24.0070 %
Volatile by volume	44.5524 %

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

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Acute toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
IRON OXIDE FUME	>10000 mg/kg (Rat)		
CHLORINATED PARAFFIN	26100 mg/kg (Rat)	>10 mL/kg (Rabbit)	
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
CHLORINATED PARAFFIN		Group 2B		X	
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	

Mutagenicity 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 (CVS), Lungs.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
TALC (RESPIRABLE DUST)		LC50> >100 g/L Brachydanio rerio 96 h		
CHLORINATED PARAFFIN		LC50> >300 mg/L Lepomis macrochirus 96 h LC50> >0.0109 mg/L Oncorhynchus mykiss 96 h LC50 94.5-271 mg/L Oncorhynchus mykiss 96 h LC50> >0.1 mg/L Lepomis macrochirus 96 h LC50> >100 mg/L Pimephales promelas 96 h		EC50 102 mg/L 24 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

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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 TNE MEC 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 Complies
 EINECS/ELINCS Complies
 CHINA Complies
 ENCS Does not Comply
 KECL Does not Comply
 PICCS Does not Comply
 AICS Complies

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
United States of America Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
ZINC COMPOUNDS	1314-13-2	1 - 5	1.0
ALUMINUM OXIDES	1344-28-1	0.1 - 1	1.0 % de minimis concentration (fibrous forms)

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

United States of America State Regulations

California Prop. 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
CHLORINATED PARAFFIN	63449-39-8	Carcinogen
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
MINERAL SPIRITS (STODDARD SOLVENT)	X	X	X		X
TALC (RESPIRABLE DUST)	X	X	X		X
CALCIUM SILICATES AND ALUMINATES	X	X	X		X
IRON OXIDE FUME	X	X	X		X
CHLORINATED PARAFFIN	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 according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

WHMIS Classification

B3 Combustible liquid
D2B Toxic materials



Component	NPRI
MINERAL SPIRITS (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 24-Jun-2011

Revision Note No information available

HMIS (Hazardous Material Information System) Health 2* Flammability 2 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