

MATERIAL SAFETY DATA SHEET

Thermo Manufacturing Systems, LLC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Thermo® #150 Rinseable Primer

MSDS Date: 06/2002

COMPANY IDENTIFICATION

Thermo Manufacturing
301 Walnut Springs Road
Lindale, TX 75771

EMERGENCY TELEPHONE NUMBERS

Health Emergency : 215-592-3000
Spill Emergency : 215-592-3000
Chemtrec : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.		CAS REG No.	WEIGHT(%)
1	Inorganic salts	Trade Secret	9-11
2	Anionic/nonionic surfactant mixture	Trade Secret	1-3
3	Water	7732-18-5	87-89

See Section 8, Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure

Inhalation
Eye Contact
Skin Contact

Skin Contact

Material can cause corrosion to the skin
- burns.

Inhalation

Inhalation of vapor or mist can cause severe irritation of nose, throat and lungs.

Ingestion

Material is harmful if swallowed.
Material can cause burning and severe swelling of the mouth, throat and digestive tract - abdominal pain -gastrointestinal irritation - nausea - vomiting -diarrhea.

Eye Contact

Material can cause corrosion to the eyes
- corneal burns - permanent eye injury.

4. FIRST AID MEASURES

Inhalation

Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Call a physician.

thoroughly before reuse. Do not take clothing home to be laundered. Discard contaminated shoes, belts and other articles made of leather.

Eye Contact

IMMEDIATELY flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention.

Ingestion

DO NOT induce vomiting. Give milk or water to drink. IMMEDIATELY see a physician. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Skin Contact

IMMEDIATELY get under a safety shower. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get prompt medical attention. Wash contaminated clothing

Note to Physician

No specific antidote, treat symptomatically. Corrosive material.

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5. FIRE FIGHTING MEASURES

Flash Point	Noncombustible
Auto-ignition Temperature	Not Applicable
Lower Explosive Limit	Not Applicable
Upper Explosive Limit	Not Applicable

Unusual Hazards

Combustion generates toxic fumes of carbon oxides - phosphorous oxides

Extinguishing Agents

Use extinguishing media appropriate for surrounding fire.

Personal Protective Equipment

Wear self-contained breathing apparatus (pressure-demand NIOSH approved

or equivalent) and full protective gear. MATERIAL IS CORROSIVE. If exposed to material as-is or mixed with run-off water during fire-fighting, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.

Special Procedures

Contain run-off. Remain upwind. Use water spray to cool containers exposed to fire.

6. ACCIDENTIAL RELEASE MEASURES

Personal Protection

Wear compatible, chemically resistant gloves.

Wear protective clothing including splash proof goggles and rubber overshoes.

MATERIAL IS CORROSIVE. If exposed to material during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures for further information.

Procedures

Evacuate the spill area. Ventilate the spill area. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth) Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Avoid all contact.

WARNING: KEEP SPILLS AND CLEANING RUNOFFS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

7. HANDLING AND STORAGE

Storage Conditions

Store in a well ventilated area. Store in a dry area.

Keep container tightly closed when not in use.

Protection, prior to handling. Wash after handling and shower at end of work period.

Handling Procedures

This material is corrosive. See SECTION 8, Exposure Controls / Personal

Other

CONTAINERS HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue (vapors and/or liquid) follow all MSDS and label warnings even after container is emptied.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Information

No.		CAS REG No.	WEIGHT(%)
1	Inorganic salts	Trade Secret	9-11
2	Anionic/nonionic surfactant mixture	Trade Secret	1-3
3	Water	7732-18-5	87-89

Comp. No.	Units	OSHA		ACGIH	
		TWA	STEL	TWA	STEL
1		None	None	None	None
2		None	None	None	None
3		None	None	None	None

Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operating conditions. Where vapors and/or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

Eye Protection

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection must be compatible with respiratory protection system employed.

Hand Protection

Chemical-resistant gloves should be worn whenever this material is handled.

Glove permeation data does exist for this material. The following glove(s) should be used for splash protection only:

- Neoprene
- Butyl rubber

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other Protection

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact. Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

Engineering Controls (Ventilation)

Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Other Protective Equipment

Facilities storing and utilizing this material should be equipped with an eyewash facility and a safety shower.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Color	Light Pink
State	Liquid
Odor Characteristic	Mild Odor
pH	13 to 13.5
Viscosity	No Data
Vapor Density (Air=1)	< 1 Water
Vapor Pressure	17 mmHg @ 20°C/68°F Water
Melting Point	0°C/32°F Water
Boiling Point	100°C/212°F Water
Solubility in Water	Completely soluble
Percent Volatility	87 to 89% Water
Evaporation Rate (BAc=1)	< 1 Water

The physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

See Section 5, Fire Fighting Measures

10. STABILITY AND REACTIVITY

Instability

This material is considered stable.

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Incompatibility

Avoid contact with strong oxidizers - strong reducing agents - strong bases - strong acids - strong mineral acids - aluminum - tin - zinc

11. TOXICOLOGICAL INFORMATION

Acute Data

No toxicity data are available for this material.

The information shown in SECTION 3, Hazards Identification, is based on toxically profiles of similar materials or on the components present in this material.

Toxicity data for component number 1:

Oral LD50-rat: 800 mg/kg
Skin irritation-rabbit: severe irritation

Toxicity data for component number 2:

Oral LD50-rat: 707mg/kg
Inhalation LC50-rat: >21.5 mg/L

12. ECOLOGICAL INFORMATION

Environmental Toxicity

Fish, 96 Hour LC50: 120 to 220 mg/l;
Daphnia magna, 48 Hour EC50: >100mg/l
Fish, 96 Hour LC50: 7 to 9 mg/l
Algae, 96 Hour EC50: 0.2 mg/l
Footnote 1: Data is for component 1.
Footnote 2: Data is for component 2.

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13. DISPOSAL CONSIDERATIONS

Procedure

Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)

14. TRANSPORT INFORMATION

US DOT Hazard Class NONREGULATED

15. REGULATORY INFORMATION

Workplace Classification

This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

This product is a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE 3: SECTION 311/312

Categorizations (40CFR 370)

This product is a hazardous chemical under 29CFR 1910.1200, and is categorized as an immediate health hazard.

SARA TITLE 3: Section 313 Information (40CFR 372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLA Information (40CFR 302.4)

This material has a reportable quantity under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. The material's hazardous waste number and reportable quantity is listed below. Releases of this material in excess of its reportable quantity must be reported to the National Response

Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. D002, 100lbs.

Waste Classification

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of corrosivity and toxicity, hazardous waste numbers: D002

United States

All components of this product are in compliance with the Inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California (Proposition 65)

This product contains trace levels of a component or components known to the state of California to cause cancer:

-1,4-Dioxane (123-91-1)

This product contains trace levels of a component or components known to the state of California to cause cancer and birth defects or other reproductive harm:

-Ethylene oxide (75-21-8)

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16. OTHER INFORMATION

Thermo Manufacturing		Scale
Hazard Rating		
Toxicity	3	4=EXTREME
Fire	0	3=HIGH
Reactivity	0	2=MODERATE
Special	C	1=SLIGHT
		0=INSIGNIFICANT
		C=CORROSIVE

Ratings are based on Thermo Manufacturing guidelines, and are intended for internal use.

HMIS Hazard Ratings

HMIS Hazard Ratings: HEALTH=3, FLAMMABILITY=0, REACTIVITY=0.

PERSONAL PROTECTION: See Section 8, Exposure Controls / Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.

Scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe * =Chronic Effects
(See Section 3, Hazardous Identification)

HMIS is a registered trademark of the National Paint and Coatings Association.

ABBREVIATIONS:

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short-Term Exposure Limit
BAC	Butyl acetate
	Bar denotes a revision from previous MSDS in this area.

The information contained herein relates only to the specific material identified. Thermo Manufacturing believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied is made as to the accuracy, reliability, or completeness of the information. Thermo Manufacturing urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.