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**MATERIAL SAFETY DATA SHEET**  
**THE CORTEC CORPORATION**  
**4119 WHITE BEAR PARKWAY**  
**ST. PAUL, MINNESOTA 55110**

**PHONE: 651-429-1100 OR TOLL FREE 1-800-4-CORTEC**  
**FAX: 651-429-1122**

EMERGENCY PHONE NO.: CHEMTREC (FOR SPILL, LEAK,  
FIRE, EXPOSURE OR ACCIDENT): 1-800-424-9300 (DAY  
OR NIGHT)

\*\*\*\*\* VCI-323 \*\*\*\*\*

**SECTION I - PRODUCT IDENTIFICATION**

PRODUCT NAME: **VCI-323**

PRODUCT DESCRIPTION: A proprietary blend of corrosion  
inhibitors in an oil carrier.

**SECTION II - INGREDIENTS**

INGREDIENT NAME(S)	WEIGHT PERCENT	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Naphthenic distillates	45-55	5mg/m <sup>3</sup> (oil mist)	N.E.

Carcinogenic: OSHA = no    NTP = no    IARC = no

**SECTION III - PHYSICAL DATA**

COLOR: Clear yellow to amber    PHYSICAL FORM: Liquid  
ODOR: Petroleum    NON-VOLATILE (weight): 91-97%  
pH: N.A.    BOILING RANGE: N.E.  
MELTING RANGE: N.A.    VAPOR DENSITY: N.E.  
VAPORIZATION RATE: N.E.    VAPOR PRESSURE: N.E.  
DENSITY: 7.7-7.9 lb/gal (0.92-0.94 kg/l)

**SECTION IV - FIRE AND EXPLOSION DATA**

HMIS FLAMMABILITY RATING: 1  
FLASH POINT: >212°F (>100°C) (COC)  
FLAMMABLE LIMITS: LEL: N.E.    UEL: N.E.  
EXTINGUISHING MEDIA: Carbon dioxide or other dry  
chemical fire fighting agents.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.  
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters  
should wear self-contained breathing apparatus. Cool tanks  
and container exposed to fire with water.

**SECTION V - HEALTH HAZARD DATA**

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush eyes with large amounts of water. Consult  
a physician immediately. Skin Contact: Wash affected area  
with soap and water. If irritation persists, consult a physician.  
Inhalation: Remove to an uncontaminated area, administer  
oxygen if necessary. If victim has stopped breathing begin  
CPR. Get medical attention. Ingestion: If conscious, give  
water but do not induce vomiting. Get immediate medical  
attention.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY  
EXPOSURE: None known

PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye  
contact.

HEALTH HAZARDS (acute and chronic) / EFFECTS OF  
OVEREXPOSURE:

1. Repeated or prolonged skin contact with petroleum and  
related products tend to remove natural skin oils leading  
to irritation and dermatitis
2. Contact with eye tissues will cause irritation and possible  
damage unless first aid measures are taken.
3. Inhalation of product vapors is not expected at ambient  
temperatures because of the low vapor pressure of the  
product. Inhalation of particle mists or vapors from hot

product may be harmful to the respiratory system.  
Minimize exposure to mists, fumes or vapors.

4. Ingestion of this product is expected to be harmful.  
Ingestion could result in aspiration into the lungs possibly  
leading to chemical pneumonia.

**SECTION VI - REACTIVITY DATA**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of  
carbon and nitrogen.

INCOMPATIBILITY: Strong acids, alkalis and oxidizing agents.

CONDITIONS TO AVOID: Contact with incompatible materials.

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED  
OR SPILLED: Absorb on sweeping compound or other  
absorbent material. Keep petroleum out of streams and  
waterways.

WASTE DISPOSAL: Incinerate or dispose of in accordance  
with existing Federal, State and Local environmental  
regulations.

**SECTION VIII - SAFE HANDLING AND USE INFORMATION**

RESPIRATORY PROTECTION: A NIOSH approved respirator  
to remove vapors or particle mists when necessary.

PROTECTIVE GLOVES: Chemical resistant rubber or plastic.

EYE PROTECTION: Safety goggles.

OTHER PROTECTIVE EQUIPMENT: N.A.

**SECTION IX - SPECIAL PRECAUTIONS AND STORAGE A**

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact  
with skin and eyes. Avoid inhalation of vapors.

PRECAUTIONS TO BE TAKEN IN STORING: Completely  
drain "Empty" drums, properly bung and promptly dispose in  
an environmentally safe manner and in accordance with  
governmental regulations. Recycle drums only through  
qualified reprocessing organizations.

**SECTION X - SHIPPING DATA**

DOT/IMDG/IATA SHIPPING NAME: N.A.

U.N. / N.A. NUMBER: N.A.

DOT/IMDG/IATA HAZARD CLASS.: N.A.

T.S.C.A. STATUS: Listed

DOT/IMDG/IATA REQUIRED LABELS: N.A.

TECHNICAL SHIPPING NAME: N.A.

FREIGHT CLASS BULK: Same as above

LTL: 65    TL: 35    MW: 30

PREPARED BY: Frank Birch, Technical Service Engineer

APPROVED BY: Boris Miksic, President/CEO

DATE PREPARED: 11/30/98    SUPERSEDES: 7/15/98

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knowledge of the Cortec Corporation. The data on this sheet  
relates only to the specific material designated herein. The  
Cortec Corporation assumes no legal responsibility for use or  
reliance upon this data.

N.E. = NOT ESTABLISHED    N.A. = NOT APPLICABLE



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**TEMPIL°, INC.**

2901 Hamilton Blvd.  
South Plainfield, NJ 07080  
PHONE: 908-757-8300

**MATERIAL SAFETY DATA SHEET**

MSDS NO: 1200 SATIN SHEEN BLACK

DATE: June 25, 1998

EMERGENCY NO: 800-424-9300

FAX: 908-757-9273

**SECTION 1 MATERIAL IDENTIFICATION**

PRODUCT NAME: PYROMARK SERIES 1200 SATIN SHEEN BLACK

GENERIC NAME OR FAMILY: Heat Resistant Paint

SHIPPING NAMES: DOT: Paint-Flammable liquid-UN1263

IATA: Restricted-Flammable liquid-UN1263

HAZARDOUS COMPONENTS OF MIXTURE	WEIGHT %	OSHA PEL (PPM)	ACGIH TLV (PPM)	CAS Number
Xylene	15-20	100PPM	100PPM	1330-20-7
Ethyl Benzene	1-4	100PPM	100PPM	100-41-4
Toluene	35-40	100PPM	100PPM	108-88-3
VMP Naphtha	10-15	300PPM	150PPM	64742-39-8
Isopropyl Acetate	5-10	250PPM	250PPM	108-21-4
Non-hazardous ingredients	20-30			

**SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemical (s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of CFR 372:

Chemical Name	%	CAS Number
Xylene	15-20	1330-20-7
Ethyl Benzene	1-4	100-41-4
Toluene	35-40	108-88-3

**SECTION 2 PHYSICAL DATA**

BOILING POINT (°F): 232-290	SPECIFIC GRAVITY (H <sub>2</sub> O = 1): 1.1
VAPOR PRESSURE (mm Hg.): 53 @ 100°F	PERCENT VOLATILE BY VOLUME (%): 70
VAPOR DENSITY (AIR =1): 3.14	EVAPORATION RATE (ET. Ether): 4.5
SOLUBILITY IN WATER: Negligible	VOLATILE ORGANIC COMPOUNDS (VOC): typically 671 gms/ltr or 5.6 lbs/gal
APPEARANCE AND ODOR: Paint-Aromatic Naphtha odor	

**SECTION 3 FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT ( and Method): 45°F (T.C.C.)	FLAMMABLE LIMITS	LOWER 1.2	UPPER 7.1
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EXTINGUISHING MEDIA: Drychemical, CO<sub>2</sub>, or universal type foam

SPECIAL FIRE FIGHTING PROCEDURES: Wear appropriate protective equipment to protect against possible toxic combustion or decomposition products.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material is flammable and may be ignited by heat, flame, spark or static electricity. Closed container may explode in the heat of a fire.



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**SECTION 4 - REACTIVITY HAZARD DATA**

STABILITY: Stable

CONDITIONS TO AVOID: Not applicable

Incompatibility (Materials to Avoid): Unknown

Hazardous Decomposition Products: If heated to decomposition may emit carbon dioxide, carbon monoxide or other toxic compounds.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Not applicable

**SECTION 5 - CONTROL AND PROTECTIVE MEASURES**

Respiratory Protection (Specify Type): Not required with adequate ventilation.

Protective Gloves: Impermeable to paint

Eye Protection: Splash goggles

**VENTILATION TO  
BE USED**

Local Exhaust

Mechanical(general): If local exhaust is not sufficient.

Other: Respirator or air supplied equipment if exhaust is not sufficient.

Other Protective Clothing &amp; Equipment: Impermeable apron or clothing if necessary.

Hygienic Work Practices: Wash hands after use of this product. Observe good personal hygienic practices to avoid contact with skin, eyes and clothing.

**SECTION 6 - HEALTH HAZARD DATA****PRIMARY ROUTES  
OF ENTRY**

Inhalation

Ingestion

Skin Absorption

This substance has not been identified  
as a carcinogen by NTP, IARC or OSHA**HEALTH  
HAZARDS**Acute: Skin Contact: irritation, redness. Vapors: headache, drowsiness, dizziness, loss of coordination  
Chronic: Reports have associated repeated and prolonged occupational overexposure to solvents with  
brain and nervous system damage.

Signs &amp; Symptoms of Exposure: Skin Contact: irritation, redness. Vapors: headache, drowsiness, dizziness, loss of coordination, nausea.

Target Organ Information: Respiratory symptoms associated with pre-existing lung disorders may be aggravated by exposure to this material. SEE HEALTH HAZARDS

**EMERGENCY FIRST AID PROCEDURES** - Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact: Flush eyes with water for 15 minutes. If pain or irritation persists, obtain medical attention.

Skin Contact: Wash with soap and water. If pain or irritation persists, obtain medical attention.

Inhalation: Remove to fresh air. Obtain immediate medical attention.

Ingestion: Do not induce vomiting. Obtain immediate medical attention.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps to be taken if Material Is Spilled or Released: Pick up in absorbent material and discard by approved procedures in compliance with Federal, State and local laws.

Waste Disposal Methods: Standard, in observance of all Federal, State and local laws concerning health and environment.

Precaution to be taken in Handling &amp; Storage: Keep containers tightly closed and store away from possible sources of ignition. Do not use near possible source of ignition.

Other Precautions and/or Special Hazards: Only use in well ventilated area.

HMIS rating: 0= Minimal hazard

1= Slight hazard

2= Moderate hazard 3= Serious hazard

4= Severe hazard

Health: 2 Flammability: 3 Reactivity: 0



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