

MATERIAL SAFETY DATA SHEET

This MSDS is compatible with ISO 11014 – 1:1994 and conforms to ANSI standard Z400.1 – 1993.

SAFETY DATA SHEET

This SDS complies with 91/155/EEC and 2001/58/EC

Section 1: Chemical Product and Company Identification

PRODUCT NAME: PreKote™ Surface Pretreatment
INTENDED USES: Non-chromated surface pretreatment replacement.

Manufacturer: Pantheon Chemical
 225 West Deer Valley Road
 Suite #4
 Phoenix, Arizona 85027-2108

Telephone: (623) 780-2296
Toll Free: 1-888-824-2918
FAX: (623) 516-0414

Supplier: Pantheon Chemical
 225 West Deer Valley Road
 Suite #4
 Phoenix, Arizona 85027-2108

Telephone: (623) 780-2296
Toll Free: 1-888-824-2918
FAX: (623) 516-0414

Date MSDS/SDS Prepared: May 25, 2007

Section 2: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	ACGIH TLV	OSHA PEL	NIOSH REL	CAS NO.	EINECS	SYMBOL	RISK
Water	80-95	None	None	None	7732-18-5	231-791-2	None	None
Diethylene Glycol Monobutyl Ether (DGBE)	<3	None	None	None	112-34-5	203-961-6	Xi,	R:36
N-Methyl-2-Pyrrolidone (NMP)	<3	None	None	None	872-50-4	212-828-1	Xi,	36/38

Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

The full text for all R-Phrases is shown in Section 16.

Section 3: Hazards Identification

HAZARD CLASSIFICATION: Non-flammable (based on IMO and DOT)
 FIRE AND EXPLOSION: None
 APPEARANCE: Clear Amber Liquid

Potential Health Effects

INHALATION:
 SKIN CONTACT:
 EYE CONTACT:
 INGESTION:
 R: 36
 R: 38

Potential Symptoms

No problems are expected.
 May cause mild skin irritation.
 Eye irritation may result.
 May be harmful if swallowed.
 Irritant to eyes.
 Irritating to Skin

NFPA RATINGS:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
PreKote	1	0	0	--

Section 4: First Aid Measures

Emergency and First Aid Procedures

GENERAL: Flush any exposed area with plenty of water.
 SKIN CONTACT: Wash thoroughly with soap and rinse with water.
 EYE CONTACT: Rinse immediately with water and seek medical advice.
 INGESTION: Drink large amount of water. Do NOT induce vomiting.
 Seek medical advice.
 INHALATION: No problems are expected.

Section 5: Fire-fighting Measures

FLASH POINT: None
 FLAMMABLE LIMITS IN AIR (% by vol): Not applicable
 EXTINGUISHING MEDIA: Not Applicable
 SPECIAL FIREFIGHTING PROCEDURES: Not Applicable
 UNUSUAL FIRE AND EXPLOSION HAZARDS: None

Section 6: Accidental Release Measures

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Product is biodegradable. Clean up as much as possible and place in a suitable container for later disposal.
 Prevent spills or contaminated rinse water from entering storm drains, drywells, watercourses, or land areas.
 Reference Section 15 on applicable regulations.

DISPOSAL METHOD:

Dispose in accordance with Federal, State and local regulations.

Section 7: Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

- Do not store in temperatures below 32 F.
- Wear proper protective equipment and avoid contact with skin, eyes, or clothing.
- Wash hands after handling this product. Keep out of reach of children.
- Follow all applicable local regulations for handling and storage.
- Utilize chemical segregation from acids.

SPECIFIC USES:

This product is a non-chromated surface pretreatment for preparing metal or composites for painting.

INFORMATION ON EMPTIED CONTAINER

Dispose of this container according to local, state, and federal laws in your country.

Section 8: Exposure Controls/Personal Protection

EXPOSURE GUIDELINES

EXPOSURE LIMITS

Reference Section 2

VENTILATION:

No special precautions required

SPECIAL VENTILATION CONTROLS:

None required

RESPIRATORY PROTECTION:

None required

HAND PROTECTION:

Rubber Gloves

EYE PROTECTION:

Safety Glasses, Chemical Goggles, or Face shield

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area

WORK/HYGIENE PRACTICES:

Avoid contact with eyes. Wash hands after handling.

ENVIRONMENTAL EXPOSURE CONTROLS:

None required

Section 9: Physical and Chemical Properties

BOILING POINT:

219° F (104°C)

SPECIFIC GRAVITY (@25 °C):

1.01

VAPOR PRESSURE OF PRODUCT:

PreKote

17.3 mmHg @ 20° C

VAPOR PRESSURE OF COMPONENTS:

DGBE

0.02 mmHg @ 20° C

NMP

0.30 mmHg @ 20° C

FREEZING POINT:

28° F (-2 °C)

SOLUBILITY IN WATER:

100%

APPEARANCE - COLOR:

Clear Amber

PHYSICAL STATE:

Liquid

ODOR:

None

PH

10.5—11.5

CORROSIVE

No

Section 10: Stability and Reactivity

STABILITY:	Stable.
CONDITIONS TO AVOID:	None known
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong acid solutions. This product will have an exothermic reaction with strong acid solutions.
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur

Section 11: Toxicological Information

No information is available for the product mixture.

SKIN IRRITATION:	Product	Moderate
EYE IRRITATION:	DGBE	Severe
	NMP	Moderate
ACUTE TOXICITY (LD50):		
LD50 (Oral Rat):	DGBE	5660 mg/kg
LD50 (Oral Rat):	NMP	3914 mg/kg
LD50 (Skin Rabbit):	NMP	8 g/kg
REPRODUCTIVE:		
TDLo	NMP	9700 mg/kg
CARCINOGENIC INFORMATION:		
NTP:	None listed	
OSHA	None listed	
IARC:	None listed	
CALIFORNIA:	The following levels represent the No Observable Effects Levels (NOEL) for NMP. Reference Section 15, Regulatory Information.	
Maximum Allowable Daily Level:	3,200	ug/day inhalation
Maximum Allowable Daily Level:	17,000	ug/day dermal

NOTE: Normal use of PreKote will result in exposure levels much less than the NOEL for NMP.

AMES TEST RESULTS: No information is available

OTHER INFORMATION:

Only Selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented. See actual entry in RTECS for complete information.

Section 12: Ecological Information

BIODEGRADABLE:	Yes
BIOACCUMULATION:	No information is available.
AQUATIC TOXICITY:	NMP: 100 % NMP may be harmful to aquatic life at concentrations above 100 mg/l. The LC50 (Pimephales promelas, 96 hours) = 100 mg/L; and the LC50 (Ceriodaphnia dubia, 48 hours) = 100 mg/L.
OTHER INFORMATION: 1999/45/EC Annex III	None No Environmental hazards

Section 13: Disposal Considerations

Completely rinse container prior to disposal. Dispose of in accordance with Federal, State and local regulations. Large quantities of waste may require adjustment to a neutral pH. None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

Section 14: Transport Information (per 49 CFR 172.101)

LABEL FOR CONVEYANCE (EU):



ROAD TRANSPORT:

DOT	Not Regulated
UN NUMBER:	None
DOT / ADR HAZARD CLASS:	None
DOT / ADR LABELS:	None
PLACARD:	None
DOT / ADR PACKAGING GROUP:	None
HAZARD NUMBER – ADR:	None
DOT / ADR PROPER SHIPPING NAME:	None
EPA HAZARDOUS WASTE CLASS:	None
MARINE POLLUTANT:	None
DOT REPORTABLE QUANTITY:	None

RAIL TRANSPORT:

RID CLASS No.:	None
RID PACKING GROUP:	

OCEAN TRANSPORT:

UN NUMBER SEA:	None
IMDG CLASS:	
IMDG PACKING GROUP:	
EmS No.:	
MARINE POLLUTANT:	
SEA TRANSPORT NOTES:	

AIR TRANSPORT:

IATA/ICAO CLASS:	None
AIR PACKING GROUP:	

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

All of the ingredients in this product are TSCA listed.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: Glycol Ethers, NMP

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: NMP NMP is known to the state of California to cause reproductive harm. The following levels represent the No Observable Effects Levels (NOEL) for NMP:

Maximum Allowable Daily Level: 2003 Draft: 3,200 ug/day inhalation

Maximum Allowable Daily Level: 2003 Draft: 17,000 ug/day dermal

NOTE: Normal use of PreKote will result in exposure levels much less than the NOEL for NMP.

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	None
Massachusetts's hazardous substance(s):	NMP
Pennsylvania hazardous substance code(s):	NMP
New Jersey	None

CLEAN AIR ACT AMMENDMENTS (1990):

SECTION 112, HAZARDOUS AIR POLLUTANTS:

This substance is listed Hazardous Air Pollutant Glycol Ethers

SECTION 111, VOLATILE ORGANIC COMPOUNDS NMP

This substance is subject to compliance with emission standards of 40CFR Part 60: NNN, RRR.

CLEAN WATER ACT: None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

CANADA:

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS)

Classification for this product is:

DGBE: Canada Gazette, Part II, 122(2)(01 Jan 88)

NMP: Canada Gazette, Part I, 135 #12:940 (24 Mar 2001)

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

DSL listed:

DGBE: Yes NMP: Yes

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: Directive 67/548/EEC, Directive 2001/59/EC, Directive 1999/45/EC, Directive 91/155/EC, Directive 2001/58/EC, and Directive 2001/60/EC.

Note: All components of this product are listed in EINICS.

Rev 2

COMPONENT	EINEC/ ELINC NUMBER	EINEC/ ELINC STATUS	CMR CLASSIFICATION	DANGER SYMBOL	RISK PHRASE NUMBER	SAFETY PHRASE NUMBER	WGK	C
DGBE	203-961-6	LISTED	Xi, R 36	Xi	R36	S(-2)26	0	
NMP	212-828-1	LISTED	Xi, R 36/38	Xi	R: 36/38	S(-2)41	1	>=10%

EINECS: European Inventory of Existing Commercial Chemical Products.

ELINCS: European List of Notified Chemical Substances

Section 16: Other Information

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Pantheon Chemical, Inc.'s knowledge. However, Pantheon Chemical, Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY or FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Pantheon Chemical, Inc. assumes no responsibility for the injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Full Text:

European Community Hazards Identification:

R: 36 Irritant to eyes.

R: 38 Irritating to Skin

S: (2-) Keep out of the reach of children

S: 41 In case of fire and/or explosion do not breathe fumes.

S: 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S: 36/37 Wear suitable protective clothing and gloves.

Danger Symbol(s): Xi Irritant

Revision Comments: Physical Characteristics changes

Revision Date: 1/24/03

Revision Number: 2

Information Sources: RTECS