

Material Safety Data Sheet

Product Name : PRIMETOP CS-311

Rev. No./Date : #1 / 2007. 8. 13

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	PRIMETOP CS-311	PRODUNCT NO.	MS-121
USE	Corrosion and scale inhibitor in cooling water system		
COMPANY NAME	PRIME TECH INTERNATIONAL CO., LTD.		
ADDRESS	GYEONGGI TECHNOPARK, sa-1 DONG, Sangnok-gu, Ansan-si, Gyeonggi-do		
TELEPHONE NO.	82-31-500-4560		
FAX NO.	82-31-500-4562		
DEAPRTMENT	Technical & Research H./Q		

SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS	OTHER NAMES	CAS NUMBER	MOLECULAR FORMULA	PERCANTAGE
Phosphonic acid (I)	HEDP	2809-21-4		Sales secret
Phosphonic acid (II)	PBTC	37971-36-1		Sales secret
Benzotriazole		29385-43-1		Sales secret
Acrylic acid based terpolymer		-		Sales secret

SECTION 3. HAZARDS IDENTIFICATION

NEFA PATING (SCALE : 0~4)	HEALTH	FIRE	REACTIVITY
	1	1	-
INHALATION	May cause to irritate respiratory organ, headache.		
SKIN CONTACT	May cause slight irritation, especially with repeated or prolonged exposure.		
EYE CONTACT	May cause some irritation which should cease on removal of product.		
INGESTION	May cause to cause an inflammation in gullet, stomach, mouth, neck.		
CARCINOGEN STATUS	None known		

SECTION 4. FIRST AID MEASURES

INHALATION	This chemical is liquid. So, it is hard to injure breath. But if it may volatize in parts under sunbeams. Remove the casualty to fresh air. Clear any blocked airways. If recovery is delayed seek medical advice.
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Official worldwide distributor



KOSMO E&T Co., Ltd.
 D715, Indeogwon IT Valley, 653, Poil-dong, Uiwang-si, Gyeonggi-do, #437-120, Korea
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SKIN CONTACT	Remove all contaminated clothing immediately. Wash contaminated area with soap and water. If any irritation persists obtain medical attention.
EYE CONTACT	Irrigate the eye with water for 15minutes. If there is any irritation obtain medical attention immediately.
INGESTION	Do not make the casualty vomit. If <u>unconscious</u> do not give anything by mouth. Check for breathing and pulse, if present, place in the recovery position and obtain medical attention. If <u>conscious</u> rinse out the mouth with water. Give 1 pint of to drink immediately and repeated drink of water at a rate of a cupful(1/3 pint) every 10minutes. Obtain medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT	Not exhibited
FLAMMABILITY	Not determined
AUTO FLAMMABLIT	Not determined
EXPLOSION HAZARD	Not determined
EXPLOSIVE LIMITS	Not determined
EXTINGUISHING MEDIA	Water spray. Carbon dioxide. General fire extinguisher.
SPEACIL EXPOURE HAZARDS IN A FIRE	Hazardous carbon oxide compound.
SPEACIL PROTECTIVE EQUIPMENT FOR A FIRE	As for all involving chemicals: chemical protection suit, suitable gloves and boots, and self-contained breathing apparatus.
EXTINGUISHING MEDIA WHICH MUST NOT BE USE FOR SAFETY REASONS	Not applicable

SECTION 6. ACCIDENTAL RELEASE EMASURES

PERSONAL PRECAUTION	Use personal protective equipment, effective dust mask.
ENVIRONMENTAL PRECAUTIONS	No special environmental precautions required.
METHODS FOR CLEANUP	Sweep up and shovel into suitable containers for disposal. The spillage should be contained with earth or sand removed for disposal. Residues or small spillage should be hosed away completely with plenty of water.

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SECTION 7. HANDLING AND STORAGE

HANDLING	Do not eat, drink or smoke whilst handling the product. Remove contaminated clothing immediately and launder before reuse. Wash hands after use. As with many organic powders flammable dust clouds may be formed. Avoid creating dust and keep away from sources of ignition.
SOTRAGE	Keep in dark and fresh air.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS	Not known
RESPIRATORY PROTECTION	Noish official respiratory organs
HAND PROTECTION	Rubber or plastic gloves.
EYE PROTECTION	Goggles.
SKIN PROTECTION	Lightweght protective clothing.
EXPOSURE LIMITS	Not known

SECTION 9. PHYSICAIAND CHEMICAL PROPRETIES

APPEARANCE	Colorless or light yellow liquid
ODOR	Odorless
pH	4.3 ±1.0 (Neat, 25°C)
SPECIFIC GRAVITY	1.13 ±0.05 (Neat, 20°C)
SOLUBLITY	Able to dilute any ratio
BOILING POINT	Not applicable
FREEZING POINT	Below -4°C
FLASH POINT	Not exhibited.
VAPOR PRESSURE	Not applicable.
VISCOSITY	Not applicable.

SECTION 10. STABLITY AND REACTIVITY

CHEMICAL REACTIVITY	Stable at ambient temperatures.
CONDITIONS TO AVOID	Avoid wet, damp and humid conditions.

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MATERIALS TO AVOID	No special precautions other than good housekeeping if chemicals.
HAZARDOUS DECOMPOSITION PRODUCTS	Burning may produce carbon monoxide and/or carbon dioxide

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY	Not known
ACUTE DERMAL TOXICITY	Not known
IRRITANCY AND CORROSIVENESS	<ul style="list-style-type: none"> Not classified as irritating to the eyes. Not classified as irritating to the skin.
SENSITIZATION	Not known
SUBACUTE, SUBCHRONIC AND PROLONGED TOXICITY	Not available
EMPIRICAL DATA ON EFFECTS ON HUMANS	Not known
OTHER INFORMATION ON HEALTH EFFECTS	Not available

SECTION 12. ECOLOGICAL INFORMATION

PERSISTENCE IN THE ENVIRONMENT	Not available
BIOACCUMULATION	Not available
MOBILITY	Not available
AQUATIC TOXICITY	Not available
NOTE	Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations. In the UK disposal may be made to a licensed treatment/disposal site in accordance with the provisions of Environmental Protection Act 1990.

SECTION 14. TRANSPORT INFORMATION

UK ROAD/RAIL	Not classified as dangerous in the meaning of transport regulations.
IMDG	Not classified as dangerous in the meaning of transport regulations.

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ICAO	Not classified as dangerous in the meaning of transport regulations.
ADR	Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

RISK PHRASES	None
SAFETY PHRASES	None

SECTION 16. OTHER INFORMATION

This information contains herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee for results obtained and assume no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal state and local laws and regulations.

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