

Material Safety Data Sheet


Name: PURECHEM MC-120

Rev. No./Date: #0 / 2002. 5. 2

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	PURECHEM MC-120	PRODUCT NO.	MS-832
GENERAL CHARACTERISTICS	It has a removal & cleaning function of inorganic contaminants in R/O MEMBRANCE made using the PA material and in particular, it is effective on the removal of carbonates.		
RECOMMENDED USE	PA system R / O MEMBRANE Inorganic Contaminants Cleaner		
COMPANY NAME	PRIME TECH INTERNATIONAL CO., LTD.		
ADDRESS	#902, GYEONGGI TECHNOPARK, sa-1 DONG, Sangnok-gu, Ansan-si, Gyeonggi-do, Korea		
TELEPHONE NO.	82-31-500-4560		
FAX NO.	82-31-500-4562		
DEAPRTMENT	Technical & Research H./Q		

SECTION 2. HAZARDS IDENTIFICATION

HAZARDS CLASSIFICATION	Skin corrosivity material (Classification 1)			
WANNING SIGN CLASSIFICATION INCLUDING PRECAUTION LETTER				
	SIGNAL WORD		HAZARD	
	HAZARD LETTER		May cause severe skin burn & eye damage.	
	PRECAUTION LETTER	PREVENTION	Wash hands thoroughly after handling.	
		RESPONSE		
STORAGE		Keep it hermetically in dry place to avoid dampness and water.		
	DISPOSAL	Discard it according to the rule as specified.		
<ul style="list-style-type: none"> OTHER HAZARDS HAZARDS CLASSIFICATION 	NEFA PATING (SCALE : 0~4)	HEALTH	FIRE	REACTIVITY
	Sodium Edetate	2	1	0

SECTION 3. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENTS	OTHER NAMES	CAS NUMBER	MOLECULAR	PERCANTAGE (%)
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KOSMO E&T Co., Ltd.

D715, Indeogwon IT Valley, 653, Poil-dong, Uiwang-si, Gyeonggi-do, #437-120, Korea
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			FORMULA	
Sodium Edetate	-	64-02-8	-	3~5
Water		7732-18-5	H ₂ O	Balance

SECTION 4. FIRST AID MEASURES

EYE CONTACT	Immediately wash with plenty of water for at least 15 minutes to wash. Take a medical action immediately if there is an inflammation,
SKIN CONTACT	<ul style="list-style-type: none"> Wash contaminated clothing for re-use. Wash immediately with plenty of water & soap until completely removed.
INHALATION	Patient should be moved to well-ventilated place first. If his recovery is quite slow, take a medical action.
INGESTION	<ul style="list-style-type: none"> Prevent the patient's vomit. Bow the head down the bottom to prevent vomiting. In case of unconscious, take an action of free airway. And if there are heart rates or pulse rates, take a medical action immediately. If a patient is conscious, rinse mouth with water and then supply water of around 0.5L immediately and drink 1 cup of water after every ten minutes repeatedly with medical treatment.
MAIN SYMPTOMS OF ACUTE & DELAY	Not exhibited.
MEDICAL ADVICE	<ul style="list-style-type: none"> For inhalation, consider supply of oxygen. Avoid gastric lavage or vomiting

SECTION 5. FIRE FIGHTING MEASURES

RIGHT FIRE EXTINGUISHER	Water spray, Bubble, Powder & CO ₂ fire extinguisher
BIG FIRE	Use general the fire extinguishing agent or give water with fine water spray.
SPECIAL HAZARD BY CHEMICAL	Pyrolystate: Carbon, Nitrogen compounds Fire and Explosion Hazards : negligible
PRECAUTION AND PROTECTIVE EQUIPMENT ON FIRE FIGHTING	<ul style="list-style-type: none"> If it can be done without risk Move container from fire area. Take care not to slip Wear the Self-contained breathing apparatus that has higher pressure than atmospheric pressure with fire-retardant clothing.

SECTION 6. LEAKAGE ACCIDENT MEASURES

PERSONAL PROTECTIVE PRECAUTION	Use personal protective equipment to direct contact.
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ENVIRONMENTAL PRECAUTIONS	<ul style="list-style-type: none"> Flush the contaminated area out with clean water and remove the residue by brushing. Water facility should be installed near the work place for the age thicking of leaked chemical.
METHODS FOR CLEAN UP	<ul style="list-style-type: none"> Sweep up the leaked chemical into the removal container. Wash immediately with plenty of water or commit the process to company handling the disposal. If there remain the slippery things, more use of dry sweeping material should be needed.

SECTION 7. HANDLING AND STORAGE

HANDLING	<ul style="list-style-type: none"> Do not eat, drink or smoke whilst handling the product. Protecting mask, safety goggles, protective clothing (long sleeve), rubber glove must be worn to avoid the direct contact. Wash hands after use. If clothing become contaminated by chemical, take off the clothing immediately and launder before reuse. Keep away from sources of ignition and avoid creating dust.
SOTRAGE	<ul style="list-style-type: none"> Keep out of direct light except for time of use and store it in dark and fresh air to isolate from flammable material.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

CHEMICAL,BIOLOGICAL EXPOSURE STANDARDS	Not exhibited.	
ENGINEERING CONTROLS	Not exhibited.	
PERSONAL PROTECTION	RESPIRATORY PROTECTION	NOISH official respiratory organs.
	EYE, HAND PROTECTION	Safety goggles and rubber gloves.
	SKIN, BODY PROTECTION	Avoid wearing contact lenses when handling. Protective clothing, rubber apron

SECTION 9. PHYSICAL AND CHEMICAL PROPRETIES

APPEARANCE	Colorless ~r pale yellow liquid
ODOR	Slight
pH	1.0 below(Neat, 25°C)
SPECIFIC GRAVITY	1.02 ±0.05 (20°C)
SOLUBLITY	Able to dilute any ratio

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BOILING POINT	104°C
FREEZING POINT	-7°C
EXPLOSIVE	None
OXIDATIVE	n/a
VAPOR PRESSURE	Similar to water
VAPOR DENSITY	Not exhibited.
DISTRIBUTION COEFFICIENT	Not exhibited.
VISCOSITY	Not exhibited.
FLASH POINT	No possibility of ignition.
AUTO-IGNITION TEMPERATURE(°C)	Not Measured.
HIGH/LOW FLAMMABILITY LIMITS (EXPLOSION UPPER/ LOWER LIMIT)	Not Measured.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL REACTIVITY	Stable at ambient temperatures and normal pressure.
CONDITIONS TO AVOID	<ul style="list-style-type: none"> Avoid contacting the heat, flame, spark and other ignition source Metals, strong oxidizing agents, acid
HAZARDOUS DECOMPOSITION PRODUCTS	Pyrolysis product : carbon compounds, Nitrogen gas.
HAZARDOUS MATERIAL PRODUCTION POSSIBILITY ON REACTION	Stable under high temperature and pressure and reported no hazardous polymerization.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY	Sodium Edetate LD ₅₀ = 1780~2000mg/kg (Rat)
ACUTE INHALATION TOXICITY	Not exhibited.
SUB-ACUTE TOXICITY	Not exhibited.
CHRONIC TOXICITY	Not exhibited.
MUTAGENIC TOXICITY	Not exhibited.
GENETICAL EFFECTS (REPRODUCTIVE TOXICITY)	Not exhibited.

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CARCINOGENICITY	Not exhibited.
OTHER INFORMATION ON HEALTH EFFECT	Not exhibited.

SECTION 12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY	Sodium Edetate : fish toxicity 486mg/L (96hr, Bluegill _Lepomis macrochirus)
RESIDUE AND RESOLVABILITY	Sodium Edetate : biodegradable after 28days 9.9%
BIOACCUMULATIVE	Not exhibited.
EARTH MOBILITY	Not exhibited.
OTHER INFORMATION ON HARZARD	Not exhibited.

SECTION 13. DISPOSAL CONSIDERATIONS

METHODS OF DISPOSAL	Storing container has to be disposed by the waste disposal company recognized by local government Head. The product is incinerated or can be used for soil stabilizer.
DISPOSAL CONSIDERATIONS	When incinerating, No residue have to be left in the container.

SECTION 14. TRANSPORT INFORMATION

UN NUMBER	Not exhibited.
UN SHIPPING NAME	Not exhibited.
TRANSPORT HAZARD CLASS	Not exhibited.
PCONTAINER CLASS	Not exhibited.
MARINE POLLUTANS	Not exhibited.
SPECIAL SAFETY MEASURE ABOUT TRANSPORT NEEDED FOR USER	Not exhibited.

SECTION 15. REGULATORY INFORMATION

REGULATION BY OCCUPATION SAFETY AND HEALTH ACTS	Not exhibited.
REGULATION BY TOXIC CHEMICALS CONTROL ACTS	Not exhibited.
REGULATION BY SAFETY	Not exhibited.

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CONTROL OF DANGEROUS SUBSTANCES ACTS	
REGULATION BY WASTES CONTROL ACTS	Not exhibited.
REGULATION BY OTHER DOMESTIC AND INTERNATIONAL LAW	Not exhibited.

SECTION 16. OTHER INFORMATION

SOURCE OF DATA	<ul style="list-style-type: none"> • The MERCK HANDBOOK, 12th EDITION(1996) • Korea Occupational Safety and Health Agency MSDS • Inventory of Existing Chemical Substances - Korea Toxic Management Association
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