

Material Safety Data Sheet

PRODUCT NAME

SR-600

PAGE

(1 / 5)

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : SR-600

Chemical Family : Blended Compound

Manufacturer Name /Address :

NAMBANG CNA CO., LTD. / 392-3 Chupal-ri, Paengsung-Eup, Pyongtaek-si, Kyonggi-do,

KOREA 451-805

TEL : 82 31 651 5911~8, FAX : 82 31 691 6441 / 82 31 658 6441

Date Prepared : Sep. 19. 2007

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	% *	Hazardous
Nitric acid	7697-37-2	17	-
Hydrofluoric acid	7664-39-3	<1	-
Magnesium compound	-	34	-
Ammonium hydrogenfluoride	1341-49-7	3	-
Water	-	>40	-

SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

NFPA Rating		Health	Flammability	Reactivity
Ingredients				
Nitric acid		4	0	2
Hydrofluoric acid		3	0	2
Magnesium Compound		-	-	-
Ammonium hydrogenfluoride		3	0	0
Water		0	0	0

Eye Contact : Corrosive! Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

Skin Contact : May cause redness, pain, and severe skin burns

Inhalation : Corrosive! Inhalation of vapors can cause breathing difficulties and lead to pneumonia and

PRODUCT NAME	PAGE
SR-600	(2 / 5)

pulmonary edema, which may be fatal. Other symptoms may include coughing, choking, and irritation of the nose, throat, and respiratory tract.

Ingestion : Harmful if swallowed.

SECTION 4. FIRST AID PROCEDURES

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Eye : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin : In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Ingestion : If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5. FIRE AND EXPLOSION HAZARD DATA

Flash Point : No information found

Auto-Ignition Temperature : No information found

Flammability Limits in Air % by Volume : No information found

Extinguisher Media : No information found

Special Fire Fighting Procedures : No information found

Unusual Fire and Explosion Hazards : No information found

SECTION 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

SECTION 7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect from physical damage and direct sunlight. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation System : That use under suitable ventilation institution.

Respiratory Protection : A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Eye Protection : Use face shield, goggled or safety glasses.

Protective Gloves : Use solvent resistant gloves for brushing and spraying.

Other Protective Clothing and Equipment : Lab coat, eye wash, and safety shower.

Hygienic Work Practices : Wash hands with soap and water after use and/or before breaks, lunch and at the end of work periods. Remove contaminates clothing and launder before reuse.

Airborne Exposure Limits : Nitric acid – 2ppm 5mg/m³, Hydrofluoric acid – 3ppm 5mg/m³

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Milky white semi-paste

Odor : Stimulated odor

Ph : 1>

Solubility in Water : Soluble

Boiling Point : >83°C

Melting Point : No information found

Vapor Pressure(mmHg) : No information found

Specific Gravity (H₂O = 1) : 1.30 ± 0.05

Vapor Density (Air =1) : No information found

Evaporation Rate (Ether=1) : No information found

SECTION 10. STABILITY AND REACTIVITY

STABILITY : Stable under ordinary conditions of use and storage

Conditions to Avoid : Heat and incompatibles.

Incompatibility (Materials to Avoid) : A dangerously powerful oxidizing agent, concentrated nitric acid is

PRODUCT NAME	PAGE
SR-600	(4 / 5)

incompatible with most substances, especially strong bases, metallic powders, carbides, hydrogen sulfide, turpentine, and combustible organics.

Hazardous Decomposition Products : When heated to decomposition, emits toxic nitrogen oxides fumes and hydrogen nitrate.

Hazardous Polymerization : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : No information found

Skin : No information found

Inhalation : inhalation rat LC50: 260mg/m3/30min (Nitric acid)

Other data : No information found

SECTION 12. ECOLOGICAL INFORMATION

Biodegradation : No information found

Fish Toxicity : No information found

Activated sludge respiration inhibition : No information found

Algal growth inhibition : No information found

SECTION 13. DISPOSAL CONSIDERATION

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. TRANSPORT INFORMATION

Not regulated.

SECTION 15. REGULATORY INFORMATION

PRODUCT NAME	PAGE
SR-600	(5 / 5)

Follow all regulation in your country

SECTION 16. PREPARATION DATA OF MSDS

This information has been faithfully prepared on the basis of various knowledge and information and is not to guarantee the quality of this product. Also, this information can be changed without prior notice in accordance with introduction of new knowledge and test results, etc. For inquiries, please contact us or the place of product purchase