MATERIAL SAFETY DATA SHEET Formula 251

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: **Northwest Industrial Solutions**
16285 SW 85th Suite 303
Tigard, OR 97224
INFORMATION PHONE: (971) 409-0614

For Medical and Chemical Emergencies 1-800-535-5053
PRODUCT NAME: Formula 251
PRODUCT NUMBER: Formula 251
DATE PREPARED: 04/17/06
LAST REVISION:
SYNONYMS: Sparkle

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	OSHA PEL	ACGIH TLV	Weight %
AMMONIUM HYDROXIDE	1336216	PEL = (as ammonia) 50 ppm(35mg/M3)	STEL = 35 ppm(27 mg/M3) TLV = 25ppm(18 mg/M3) as ammonia	< 5

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: CORROSIVE!
POTENTIAL HEALTH EFFECTS
EYE CONTACT: May cause irritation or damage to the eyes.
INHALATION: Irritating to the nose, throat, and respiratory tract.
INGESTION: Swallowing the liquid can be irritating to the gastrointestinal tract.
SKIN CONTACT: Breif contact may dry the skin, or cause burning or stinging sensation. Prolonged or repeated contact may irritate the skin causing dermititis.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, pain, redness of skin.

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
INGESTION: If swallowed, do NOT induce vomitting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.
SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin or respiratory conditions.
SUPPLEMENTAL HEALTH INFORMATION:
The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: N/A **FLASH POINT METHOD USED:** N/A
AUTOIGNITION: N/A **LEL:** **UEL:**
EXTINGUISHING MEDIA:
Water fog, dry chemical foam or carbon dioxide. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing and a NIOSH-approved self-contained breathing apparatus with full face piece operated in a pressure positive mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large amounts of water.
COMBUSTION PRODUCTS: N/A

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Keep out of water supply.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Protect from freezing. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.
OTHER PRECAUTIONS:
For industrial use only. Keep away from children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:	Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.
VENTILATION:	Local exhaust sufficient to keep exposure below TLV.
PROTECTIVE GLOVES:	Rubber or other impervious material with gauntlets.
WORK / HYGENIC PRACTICES:	Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.
ENGINEERING CONTROLS:	N/A
EXPOSURE GUIDELINES:	*Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.*
EYE PROTECTION:	Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.
OTHER PROTECTIVE EQUIP:	Boots, apron, lab coat or coveralls of impervious material, safety shower, eyewash.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid		
APPEARANCE AND ODOR:	Clear, blue liquid; Ammonia odor.		
SOLUABILITY IN WATER:	Complete		
BOILING POINT:	100 deg C	**PH:**	11-12
VAPOR PRESSURE:	N/A	**VAPOR DENSITY:**	N/A
SPECIFIC GRAVITY:	1.0	**POUNDS PER GALLON:**	8.4
MELTING POINT:	N/A	**OTHER PROPERTIES:**	N/A

10. STABILITY AND REACTIVITY

STABLE: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY: Strong Acidic and Strong Oxidizing Compounds, metal containers.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Ammonia vapors
HAZARDOUS POLYMERIZATION: Will Not Occur
CONDITIONS TO AVOID: None

11. TOXICOLOGICAL INFORMATION N/A

12. ECOLOGICAL INFORMATION N/A

13. DISPOSAL CONSIDERATIONS

Dilute with large ammounts of water and dispose to municipal or industrial waste treatment faciity in accordance with applicable regulations.