

Material Safety Data Sheet

Forms Published by WindowChem (707)864-0846

Section 1. Chemical Product and Company Identification

Product Name	Product Code
SOLUTION N-66	
Manufacturer's Name	Emergency Telephone Number
KOCOUR CO.	CHEMTREC-1-800-424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
4800 S. ST. LOUIS AVE.	1-773-847-1111
CHICAGO, IL. 60632	Date Prepared
	1/10/2003
	Signature of Preparer (optional)

Section 2. Composition/Information on Ingredients

Component	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	Percent
AMMONIUM HYDROXIDE-	1336-21-6	orl-hmn LDLo-	43mg/kg		25-30%
		inhal-hmn LCLo-	5000ppm		
		inhal-hmn TCLo-	408 ppm		
WATER	7732-18-5				BALANCE

Section 3. Hazards Identification

Emergency Overview

CAUSES BURNS.

MAY BE FATAL IF INHALED OR SWALLOWED.

VAPOR IS EXTREMELY IRRITATING.

Potential Health Effects

Eye EYE CONTACT CAN CAUSE SEVERE BURNS.

Skin SKIN CONTACT CAN CAUSE SEVERE BURNS.

Ingestion CORROSIVE TO THE RESPIRATORY AND DIGESTIVE SYSTEMS.

Inhalation INHALATION CAN CAUSE PNEUMONITIS, PULMONARY EDEMA.

Chronic/Carcinogenicity NOT LISTED BY IARC, NTP OR OSHA AS A CANCER CAUSING AGENT.

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Teratology

Reproduction

Mutagenicity

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE MUTAGENIC EFFECTS. CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS).

Section 4. First Aid Measures

Eye

IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES.

Skin

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER.

Ingestion

DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

Inhalation

REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.

Section 5. Fire Fighting Measures

Flammable Properties

Flash Point

N/A

Method

N/A

Flammable Limits

Lower

16.00% Upper

25.00%

Autoignition Temperature

N/A

Hazardous Combustion Products

PRODUCES TOXIC, IRRITATING AND CORROSIVE AMMONIA GAS.

Extinguishing Media

WATER SPRAY

Fire Fighting Instructions

WEAR PROPER PERSONAL PROTECTION AND SELF CONTAINED BREATHING APPARATUS.

Section 6. Accidental Release Measures

Small Spill

EVACUATE THE AREA OF ALL UNNECESSARY PERSONNEL. WEAR SUITABLE PERSONAL PROTECTION AND SELF CONTAINED BREATHING APPARATUS.

Large Spill

ELIMINATE ANY SOURCES OF IGNITION. CONTAIN THE RELEASE AND ELIMINATE ITS SOURCE.

Section 7. Handling and Storage

Handling

DO NOT BREATHE VAPOR. DO NOT GET INTO EYES ON SKIN OR ON CLOTHING.

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Storage KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL AREA. DO NOT MIX WITH BLEACH OR OTHER OXIDES. RETAINED RESIDUE MAY MAKE EMPTY CONTAINERS HAZARDOUS; USE CAUTION.

Section 8. Exposure Controls, Personal Protection

Engineering Controls VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION MATERIAL MUST BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH EQUIVALENT VENTILATION.

Respiratory Protection

USE A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.

Skin Protection

PROTECTIVE GLOVES (ie: NEOPRENE, PVC OR EQUIVALENT) TO PREVENT SKIN CONTACT.

Eye Protection

SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.

Permissible Exposure Levels (see also Section 2)

Component	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	Percent
(SEE LIMITS LISTED IN SECTION 2).					

Section 9. Physical and Chemical Properties

Boiling Point	N/A	Specific Gravity (H2O = 1)	0.9
Vapor Pressure (mm Hg)	115mmHg	Melting Point	Minus 72 de
Vapor Density (AIR = 1)	0.6 (asNH	Evaporation rate (Butyl Acetate = 1)	N/A
Solubility in Water		Physical State	N/A
MISCIBLE		Other	
Appearance and Odor		PERCENT VOLITILE BY VOLUME=	100%
COLORLESS LIQUID WITH A DISTINCT ODOR			

Section 10. Stability and Reactivity

Chemical Stability STABLE

Incompatibility AVOID ACIDS, OXIDIZERS , HYPOCHLORITES, HALOGENS, DIMETH SULFATE, ACROLEIN, SODIUM HYDROXIDE, SILVER COMPOUNDS, COPPER, IRON, CALCIUM.

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Hazardous Decomposition Products

NOx

Hazardous Polymerization

WILL NOT OCCUR.

Section 11. Toxicological Information

(SEE SECTION 2).

Section 12. Ecological Information

CAN BE DAMAGING TO THE ENVIRONMENT IF RELEASED INTO STREAMS, PONDS, ETC.

Section 13. Disposal Considerations

EPA WASTE NUMBERS: D002. SPECIFIED TECHNOLOGY- NEUTRALIZE TO pH 6-9. CONTACT YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSABLE TREATMENT SITES. ALWAYS CONTACT A

PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT FEDERAL, STATE AND LOCAL REGULATIONS.

Section 14. Transport Information

DOT SHIPPING NAME: AMMONIUM HYDROXIDE

DOT NUMBER: NA2672

Section 15. Regulatory Information

AMMONIUM HYDROXIDE HAS A CERCLA RQ OF 1000 POUNDS.

Section 16. Other Information

THE CAS NUMBERS OF ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.