

PRODUCT NAME (AS USED ON LABEL): HOUSEHOLD AMMONIA

30901

ALTERNATE PRODUCT NAME(S): VARIOUS BRANDED AND PRIVATE LABEL NAMES
(CLEAR, CLEAR BLUE, LEMON, SUDSY)

MATERIAL SAFETY DATA SHEET (MSDS) COMPLIES WITH
OSHA HCS 29 CFR 1910.1200 AND OSHA 174 (9/85)

NOTE: N/A=NOT APPLICABLE. ND=NOT DETERMINED. NIF=NO INFORMATION FOUND.

SECTION I

MANUFACTURER/DISTRIBUTOR NAME: THE DIAL CORPORATION

ADDRESS: 111 WEST CLARENDON AVE.

PHOENIX, AZ 85077

EMERGENCY TELEPHONE NUMBER: (602) 253-3334

TELEPHONE NUMBER FOR INFORMATION: (602) 991-3000

DATE PREPARED: 5/5/86

SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

FINISHED PRODUCT: OSHA(PEL): N/A ACGIH(TLV): N/A

HAZARDOUS COMPONENTS:

CHEMICAL/COMMON NAME OSHA PEL ACGIH TLV OTHER LIMITS CAS NUMBER

AMMONIA (AS NH3)	50 PPM*	25 PPM*	NIOSH CEILING	7664-41-7
(AMMONIA GAS)			50 PPM	

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT(DEGREES F.): 191-212	MELTING POINT: N/A
VAPOR DENSITY(AIR=1): N/A	FREEZING POINT: N/A
SPECIFIC GRAVITY(WATER=1): 0.9890	PH: 11.8
VAPOR PRESSURE(MM HG.): N/A	EVAPORATION RATE(≠1): >1
VOLATILES BY WEIGHT(%): 98.1	* BUTYL ACETATE
SOLUBILITY IN WATER: COMPLETE	OTHER: N/A

APPEARANCE/ODOR: CLEAR, CLOUDY WHITE OR COLORED LIQUID WITH DISTINCT AMMONIA ODOR.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT(F)/METHOD USED: NON-FLAMMABLE

FLAMMABLE LIMITS(LEL/UEL): LEL=16% AS NH3 UEL=27% AS NH3

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES: IF POSSIBLE, MOVE PRODUCT FROM FIRE AREA. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NEGLIGIBLE FIRE AND EXPLOSION HAZARD, HOWEVER, IF AMMONIA GAS IS EVOLVED, IT IS FLAMMABLE.

SECTION V-REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: HEAT

INCOMPATIBLE MATERIALS TO AVOID: CHLORINE, BROMINE, IODINE, HYPOCHLORITE, MINERAL ACIDS, VIOLENT REACTIONS MAY OCCUR WITH INCOMPATIBLE MATERIALS, RELEASING IRRITATING OR TOXIC GASES.

Prod #1

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: TOXIC OXIDES OF NITROGEN AND AMMONIA GAS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NONE

SECTION VI-HEALTH HAZARD DATA

ROUTE OF ENTRY: INHALATION-LIKELY SKIN-LIKELY INGESTION-UNLIKELY
UNDER NORMAL USE
CONDITIONS.

HEALTH HAZARDS(ACUTE AND CHRONIC): (ACUTE)-BASED ON THE TESTING OF THIS PRODUCT IN ANIMALS, IT IS BOTH AN EYE AND SKIN IRRITANT (RABBIT) AND TOXIC BY INGESTION (RAT).
(CHRONIC)-NOT DETERMINED ON THIS PRODUCT

CARCINOGENICITY#: NTP

IARC MONOGRAPHS

OSHA REGULATED

N/A

N/A

N/A

* NOT DETERMINED FOR FINISHED PRODUCT OR AMMONIA(NH3), THE HAZARDOUS COMPONENT, IN THE PRODUCT.

SIGNS AND SYMPTOMS OF EXPOSURE: THE FOLLOWING DISCUSSION IS BASED PRIMARILY ON THE FACT THAT AMMONIA (AS NH3) IS THE HAZARDOUS INGREDIENT IN THE FINISHED PRODUCT. THE EFFECTS DESCRIBED REPRESENT THE 'WORST CASE' SCENARIO FOR THE FINISHED PRODUCT.

INHALATION-MILD EXPOSURE TO AMMONIA VAPORS MAY CAUSE IRRITATION OF THE NOSE, THROAT, COUGHING AND SNEEZING. A MORE SEVERE EXPOSURE MAY CAUSE RESPIRATORY IRRITATION, DYSPNEA, PULMONARY EDEMA. REPEATED OR PROLONGED EXPOSURE TO VAPORS MAY CAUSE, IN ADDITION TO IRRITATION, BRONCHITIS AND PNEUMONIA.

INGESTION-IF INGESTED, MAY CAUSE EXCESSIVE SALIVATION, NAUSEA, VOMITING, GASTRIC IRRITATION WITH CHANCES OF PERFORATION. INGESTION OF LARGE QUANTITIES, MAY PRODUCE CNS DEPRESSION, SHOCK AND CONVULSIONS.

SKIN-POWERFUL IRRITANT, MAY CAUSE SEVERE BURNING PAIN AND CORROSIVE DAMAGE. REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS.

EYES-POWERFUL IRRITANT, MAY CAUSE CONJUNCTIVITIS, SWELLING OF EYELIDS, CHEMICAL BURNS, TRANSIENT CORNEAL DAMAGE. REPEATED OR PROLONGED EXPOSURE MAY CAUSE, IN ADDITION TO IRRITATION, CATARACTS AND RETINAL ATROPHY.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

EYE PROTECTION-AVOID EYE CONTACT. WEAR PROTECTIVE SAFETY GOGGLES OR FACE SHIELD

SKIN PROTECTION-AVOID PROLONGED OR REPEATED SKIN CONTACT. WEAR PROTECTIVE GLOVES

RESPIRATORY PROTECTION-KEEP UPWIND OF SPILL. AVOID BREATHING VAPORS. USE NIOSH APPROVED RESPIRATOR THAT WILL PROVIDE PROTECTION FROM AMMONIA GAS. IF AMMONIA VAPORS >300 PPM USE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE SHIELD.

HANDLING-DO NOT MIX WITH OTHER HOUSEHOLD CHEMICALS, SUCH AS BLEACH, AUTOMATIC TOILET BOWL CLEANER, WALL OR TILE CLEANERS.

STORAGE-STORE IN COOL, VENTILATED AREA. KEEP OUT OF DIRECT SUNLIGHT. AVOID OVERHEATING. PLASTIC BOTTLE WILL BULGE FROM AMMONIA VAPOR PRESSURE.

NORMAL CLEAN UP-VENTILATE AREA. FLUSH AWAY SPILLED PRODUCT WITH WATER WHEN VAPORS WILL PERMIT.

WASTE DISPOSAL-DILUTE WITH WATER AND FLUSH TO SEWER IN ACCORDANCE

WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
OTHER PRECAUTIONS-NONE

SECTION VIII-FIRST AID & MEDICAL EMERGENCY PROCEDURES

EYES: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

SKIN: RINSE WELL WITH RUNNING WATER. IF IRRITATION PERSISTS, CONTACT PHYSICIAN OR LOCAL POISON CONTROL CENTER.

INHALATION: IF EFFECTS OCCUR, REMOVE VICTIM TO FRESH AIR. PROVIDE SYMPTOMATIC AND SUPPORTIVE CARE. CONTACT PHYSICIAN OR LOCAL POISON CONTROL CENTER.

INGESTION: IMMEDIATELY GIVE LARGE QUANTITIES OF WATER OR MILK TO DILUTE. DO NOT INDUCE VOMITING. GET PROMPT MEDICAL ATTENTION.

SECTION IX-CONTROL MEASURES-OCCUPATIONAL

RESPIRATORY PROTECTION(SPECIFY TYPE): SEE SECTION VII ABOVE.

VENTILATION:

USE LOCAL EXHAUST SYSTEM

MECHANICAL(GENERAL)-N/A

SPECIAL-N/A

PROTECTIVE GLOVES: SEE SECTION VII ABOVE

EYE PROTECTION: SEE SECTION VII ABOVE

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: UNIFORMS, COVERALLS OR LABCOATS

WORK/HYGIENIC PRACTICES: PROVIDE EYE BATH AND EMERGENCY SHOWER.
LAUNDRY WORK CLOTHING WHEN SOILED.

SECTION X-ENVIRONMENTAL IMPACT

APPLICABLE REGULATIONS: CPSC 16 CFR 1500---DOT 49 CFR 172

DOT/EPA HAZARD CLASS: ORM-D/NONE

SHIPPING NAME: CONSUMER COMMODITY

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