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MATERIAL SAFETY DATA SHEET

HELENA LABORATORIES
1530 Lindbergh Dr./P.O. Box 752
Beaumont, TX 77704-0752
USA Toll Free 800-231-5663

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DATE PREPARED: 4/8/2008
REVISION: 4

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1. IDENTIFICATION:

PRODUCT NAME: SELECT DIAGNOSTICS 80 COUNT TAKE HOME ES

PRODUCT NO: 302

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2. INGREDIENTS (THE ABOVE KIT CONTAINS THE FOLLOWING ITEMS):

Table with 3 columns: PRODUCT NUMBER, PRODUCT IDENTIFICATION (LABEL NAME), COMMENTS. Includes entries for 551725 (SELECT DIAGNOSTICS ES TRIPLE SLIDES) and 551748 (PSS ES DEVELOPER). Includes a sub-table for hazardous ingredients: N-PROPANOL and HYDROGEN PEROXIDE SOLUTIONS.

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ATTACHED ARE THE MSDSs FOR THE ABOVE NAMED HAZARDOUS INGREDIENTS.

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1530 Lindbergh Dr./P.O. Box 752
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DATE PREPARED: 11/28/2000
REVISION: 1

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1. IDENTIFICATION:

NAME: N-PROPANOL

CAS #: 71-23-8

MOLECULAR FORMULA: C3H8O
MOLECULAR WEIGHT: 60.10

SYNONYMS: PROPYL ALCOHOL, N-PROPYL ALCOHOL, N-PROPANOL, 1-HYDROXY
PROPANE, ETHYL CARBINOL

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2. HAZARDOUS INGREDIENTS:

Table with 4 columns: CHEMICAL NAME/COMMON NAME, CAS #, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: PROPYL ALCOHOL, 100, 200 PPM, 200 PPM.

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3. PHYSICAL DATA:

BOILING POINT: 97°C SPECIFIC GRAVITY (H2O = 1): 0.8040

VAPOR PRESSURE (MM HG.): 14.3 mm Hg @ 20°C MELTING POINT: -127°C

VAPOR DENSITY (AIR = 1): 2.07

SOLUBILITY IN WATER: MISCIBLE APPEARANCE AND ODOR: CLEAR,
COLORLESS LIQUID. ALCOHOL-LIKE ODOR

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NA = Not Applicable
NL = Not Listed

NE = Not Established
NIF = No Information Found

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4. HEALTH HAZARD DATA:

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? YES SKIN? YES INGESTION? YES

CARCINOGENICITY: NTP? NO IARC? NO

ACUTE EFFECTS OF OVEREXPOSURE:

EYES: MAY CAUSE MODERATE EYE IRRITATION. MAY RESULT IN CORNEAL INJURY.

SKIN: MAY CAUSE MODERATE SKIN IRRITATION. PROLONGED AND/OR REPEATED CONTACT MAY CAUSE DEFATTING OF THE SKIN AND DERMATITIS.

INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION WITH NAUSEA, VOMITING AND DIARRHEA. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY EXCITEMENT, FOLLOWED BY HEADACHE, DIZZINESS, DROWSINESS, AND NAUSEA. ADVANCED STAGES MAY CAUSE COLLAPSE, UNCONSCIOUSNESS, COMA AND POSSIBLE DEATH DUE TO RESPIRATORY FAILURE.

INHALATION: INHALATION OF VAPOR MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE EFFECTS SIMILAR TO THOSE DESCRIBED FOR INGESTION.

CHRONIC EFFECTS OF EXPOSURE: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DEFATTING AND DERMATITIS. CHRONIC EXPOSURE MAY CAUSE LIVER DAMAGE.

TOXICITY DATA:

LD50/LC50:

CAS# 71-23-8: INHALATION, MOUSE: LC50 = 48 GM/M3; ORAL, MOUSE: LD50 = 6800 MG/KG; ORAL, RABBIT: LD50 = 2825 MG/KG; ORAL, RAT: LD50 = 1870 MG/KG; SKIN, RABBIT: LD50 = 4060 MG/KG.

CARCINOGENICITY:

N-PROPYL ALCOHOL - NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

EPIDEMIOLOGY:

ORAL RAT TDLo = 50 GM/KG/81 WEEKS. 1-PROPANOL CAUSED LIVER TUMORS AND LEUKEMIA ACCORDING TO RTECS CRITERIA.

TETRATOGENICITY:

NO INFORMATION AVAILABLE.

REPRODUCTIVE EFFECTS:

AN EXPOSURE OF 7000 PPM/7 HOURS CAUSED A REDUCTION IN FERTILITY IN MALE RATS AND CAUSED FETOTOXIC EFFECTS. A DOSE OF 10000 PPM/7 HOURS CAUSED MUSCULOSKELETAL ABNORMALITIES AND POST-IMPLANTATION MORTALITY.

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4. HEALTH HAZARD DATA: (CONT)

**NEUROTOXICITY:**

**NO INFORMATION AVAILABLE.**

**MUTAGENICITY:**

**NO INFORMATION AVAILABLE.**

**OTHER STUDIES:**

**SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.**

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY AND DIGESTIVE TRACT IRRITATION. MAY CAUSE DERMATITIS.**

**TARGET ORGANS: CENTRAL NERVOUS SYSTEM, LIVER.**

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYE CONTACT: WASH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.**

**SKIN CONTACT: REMOVE ANY CONTAMINATED CLOTHING. WASH SKIN WITH SOAP OR MILD DETERGENT AND WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.**

**INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.**

**INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID.**

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**5. FIRE AND EXPLOSION HAZARD DATA:**

**FLASH POINT (METHOD USE): 15°C (59°F)**

**FLAMMABLE LIMITS: LEL 2.00% UEL 12.00%**

**EXTINGUISHING MEDIA: USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. USE DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL-RESISTANT FOAM. DO NOT USE STRAIGHT STREAMS OF WATER.**

**SPECIAL FIRE FIGHTING PROCEDURES: CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT AND/OR FIRE. AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. COMBUSTION GENERATES TOXIC FUMES. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE**

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**5. FIRE AND EXPLOSION HAZARD DATA: (CONT)**

GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. FLAMMABLE LIQUID. CAN RELEASE VAPORS THAT FORM EXPLOSIVE MIXTURES AT TEMPERATURES ABOVE THE FLASHPOINT. VAPORS MAY BE HEAVIER THAN AIR. THEY CAN SPREAD ALONG THE GROUND AND COLLECT IN LOW OR CONFINED AREAS.

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6. REACTIVITY DATA:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): ACID CHLORIDES, ACID ANHYDRIDES, OXIDIZING AGENTS, POTASSIUM TERT-BUTOXIDE.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION:

MAY OCCUR: WILL NOT OCCUR: X

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7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ABSORB SPILL WITH INERT MATERIAL, (E.G., DRY SAND OR EARTH), THEN PLACE INTO A CHEMICAL WASTE CONTAINER. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. CLEAN UP SPILLS IMMEDIATELY, OBSERVING PRECAUTIONS IN THE PROTECTIVE EQUIPMENT SECTION. USE WATER SPRAY TO DISPERSE THE GAS/VAPOR. REMOVE ALL SOURCES OF IGNITION. PROVIDE VENTILATION.

WASTE DISPOSAL METHODS: OBSERVE ALL FEDERAL AND STATE REGULATIONS.

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8. SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION (SPECIFY TYPE): WHERE EXPOSURE IS LIKELY TO EXCEED ACCEPTABLE CRITERIA, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION EQUIPMENT. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANT IN AIR AND IN ACCORDANCE WITH OSHA (29 CFR 1910.134).

VENTILATION: LOCAL EXHAUST: X MECHANICAL: OTHER:

PROTECTIVE GLOVES: WEAR GLOVES WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF THE ANTICIPATED EXPOSURE IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

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8. SPECIAL PROTECTION INFORMATION: (CONT)

EYE PROTECTION: WEAR SAFETY GLASSES OR GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1.

OTHER PROTECTIVE EQUIPMENT: WEAR APPROPRIATE PROTECTIVE CLOTHING TO

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9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

**HANDLING:**

WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE WITH ADEQUATE VENTILATION. USE SPARK-PROOF TOOLS AND EXPLOSION PROOF EQUIPMENT. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE, (LIQUID AND/OR VAPOR), AND CAN BE DANGEROUS. DO NOT GET ON SKIN OR IN EYES. DO NOT INGEST OR INHALE. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, SPARKS OR OPEN FLAMES.

**STORAGE:**

KEEP AWAY FROM HEAT, SPARKS, AND FLAME. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. STORE IN A COOL, DRY PLACE. STORE IN A TIGHTLY CLOSED CONTAINER. KEEP FROM CONTACT WITH OXIDIZING MATERIALS. FLAMMABLES-AREA.

OTHER PRECAUTIONS:

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10. OTHER INFORMATION: NA

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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DATE PREPARED: **4/3/2008**  
 REVISION: **5**

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**1. IDENTIFICATION:**

NAME: **HYDROGEN PEROXIDE SOLUTIONS, 30-50%**

CAS #: **MIXTURE**

CHEMICAL FAMILY: **PEROXIDE**  
 MOLECULAR WEIGHT: **H2-02**  
 MOLECULAR FORMULA: **34.01**

SYNONYMS: **HYDROGEN PEROXIDE SOLUTION 30-50%, HYDROGEN DIOXIDE**

**2. HAZARDOUS INGREDIENTS:**

CHEMICAL NAME/COMMON NAME CAS #	%	EXPOSURE LIMITS	
		OSHA PEL	ACGIH TLV
<b>HYDROGEN PEROXIDE</b> <b>7722-84-1</b>	<b>30-50%</b>	<b>1 PPM</b> <b>(1.4 MG/M3)</b>	<b>1 PPM</b> <b>(1.4 MG/M3)</b>

**3. PHYSICAL DATA:**

BOILING POINT: **108°C**                      SPECIFIC GRAVITY (H2O = 1): **1.1**

VAPOR PRESSURE (MM HG.):                      MELTING POINT: **-33°C**  
**23 @ 30°C**

VAPOR DENSITY (AIR = 1): **1.1**

SOLUBILITY IN WATER: **SOLUBLE**                      APPEARANCE AND ODOR: **COLORLESS,**  
**CLEAR LIQUID/SLIGHTLY ACID ODOR**

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**NA = Not Applicable**  
**NL = Not Listed**

**NE = Not Established**  
**NIF = No Information Found**

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4. HEALTH HAZARD DATA:

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? YES SKIN? YES INGESTION? YES

CARCINOGENICITY: NTP? NO IARC? NO

ACUTE EFFECTS OF OVEREXPOSURE:

EYES: CONTACT WITH LIQUID IS CORROSIVE TO THE EYES AND CAUSES SEVERE BURNS. CONTACT WITH THE EYES MAY CAUSE CORNEAL DAMAGE.

SKIN: CAUSES SEVERE SKIN IRRITATION AND POSSIBLE BURNS. MAY CAUSE DISCOLORATION, ERYTHEME (REDNESS), SWELLING, AND THE FORMATION OF PAPULES AND VESICLES (BLISTERS).

INGESTION: CAUSES GASTROINTESTINAL IRRITATION WITH NAUSEA, VOMITING AND DIARRHEA. CAUSES GASTROINTESTINAL TRACT BURNS. MAY CAUSE VASCULAR COLLAPSE AND DAMAGE. MAY CAUSE DAMAGE TO THE RED BLOOD CELLS. MAY CAUSE DIFFICULTY IN SWALLOWING, STOMACH DISTENSION, POSSIBLE CEREBRAL SWELLING AND DEATH. INGESTION MAY RESULT IN IRRITATION OF THE ESOPHAGUS, BLEEDING OF THE STOMACH AND ULCER FORMATION.

INHALATION: CAUSES CHEMICAL BURNS TO THE RESPIRATORY TRACT. MAY CAUSE ULCERATION OF NASAL TISSUE, INSOMNIA, NERVOUS TREMORS WITH NUMB EXTREMITIES, CHEMICAL PNEUMONIA, UNCONSCIOUSNESS, AND DEATH. AT HIGH CONCENTRATIONS, RESPIRATORY EFFECTS MAY INCLUDE ACUTE LUNG DAMAGE AND DELAYED PULMONARY EDEMA.

CHRONIC EFFECTS OF EXPOSURE:

CHRONIC: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS. LABORATORY EXPERIMENTS HAVE RESULTED IN MUTAGENIC EFFECTS. REPEATED CONTACT MAY CAUSE CORNEAL DAMAGE.

TOXICITY DATA: CAS # 7722-84-1:

INHALATION, RAT: LC50 = 2 GM/M3/4H;

ORAL, MOUSE: LD50 = 2 GM/KG;

ORAL, RABBIT: LD50 = 820 MG/KG;

ORAL, RAT: LD50 = 1518 MG/KG;

ORAL, RAT: LD50 = 910 MG/KG;

ORAL, RAT: LD50 = 376 MG/KG;

SKIN, RAT: LD50 = 3 GM/KG;

SKIN, RAT: LD50 = 4060 MG/KG;

CARCINOGENICITY:

CAS# 7732-18-5: NOT LISTED BY ACGIH, IARC, NIOSH,

NTP, OR OSHA. CAS # 7722-84-1:

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4. HEALTH HAZARD DATA (CONT):

ACGIH: A3 - ANIMAL CARCINOGEN

IARC: GROUP 3 CARCINOGEN

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NIF

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: GET MEDICAL AID IMMEDIATELY. DO NOT ALLOW VICTIM TO RUB OR KEEP EYES CLOSED. EXTENSIVE IRRIGATION WITH WATER IS REQUIRED (AT LEAST 30 MINUTES).

SKIN CONTACT: GET MEDICAL AID IMMEDIATELY. IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES.

INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. WASH MOUTH OUT WITH WATER. VOMITING MAY OCCUR SPONTANEOUSLY. IF VOMITING OCCURS AND THE VICTIM IS CONSCIOUS, GIVE WATER TO FURTHER DILUTE THE CHEMICAL.

INHALATION: GET MEDICAL AID IMMEDIATELY. REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT USE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING HAS CEASED APPLY ARTIFICIAL RESPIRATION USING OXYGEN AND A SUITABLE MECHANICAL DEVICE SUCH AS A BAG AND A MASK.

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. ATTEMPTS AT EVACUATING THE STOMACH VIA EMESIS INDUCTION OR GASTRIC LAVAGE SHOULD BE AVOIDED. IN THE EVENT OF SEVERE DISTENSION OF THE STOMACH OR ESOPHAGUS DUE TO GAS FORMATION, INSERTION OF A GASTRIC TUBE MAY BE REQUIRED. TO TREAT CORNEAL DAMAGE, CAREFUL OPHTHALMOLOGIC EVALUATION IS RECOMMENDED AND THE POSSIBILITY OF LOCAL CORTICOSTEROID THERAPY SHOULD BE CONSIDERED.

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5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USE): NON-COMBUSTIBLE

FLAMMABLE LIMITS: LEL 40 VOL% UEL 100 VOL%

EXTINGUISHING MEDIA: USE WATER ONLY. DO NOT USE CARBON DIOXIDE. DO NOT USE DRY CHEMICAL. DO NOT GET WATER INSIDE CONTAINERS. CONTACT PROFESSIONAL FIRE-FIGHTERS IMMEDIATELY. COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL WELL AFTER FIRE IS OUT. FOR LARGE FIRES, \*\*\*\*\*

5. FIRE AND EXPLOSION HAZARD DATA (CONT):

FLOOD FIRE AREA WITH LARGE QUANTITIES OF WATER, WHILE KNOCKING DOWN VAPORS WITH WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES:

GENERAL INFORMATION: AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AND COLLECT WATER USED TO FIGHT FIRE. STRONG OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIALS MAY CAUSE A FIRE. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL. SUBSTANCE IS NONCOMBUSTIBLE. USE WATER WITH CAUTION AND IN FLOODING AMOUNTS. VAPORS MAY BE HEAVIER THAN AIR. THEY CAN SPREAD ALONG THE GROUND AND COLLECT IN LOW OR CONFINED AREAS. SOME OXIDIZERS MAY REACT EXPLOSIVELY WITH HYDROCARBONS (FUEL). MAY DECOMPOSE EXPLOSIVELY WHEN HEATED OR INVOLVED IN A FIRE. MAY ACCELERATE BURNING IF INVOLVED IN A FIRE.

**6. REACTIVITY DATA:**

STABILITY: UNSTABLE: STABLE: X

CHEMICAL STABILITY: DECOMPOSES SLOWLY TO RELEASE OXYGEN. UNSTABLE WHEN HEATED OR CONTAMINATED WITH HEAVY METALS, REDUCING AGENTS, RUST, DIRT OR ORGANIC MATERIALS. STABILITY IS REDUCED WHEN pH is above 4.0.

CONDITIONS TO AVOID: MECHANICAL SHOCK, INCOMPATIBLE MATERIALS, LIGHT, IGNITION SOURCES, DUST GENERATION, EXCESS HEAT, COMBUSTIBLE MATERIALS, REDUCING AGENTS, ALKALINE MATERIALS, STRONG OXIDANTS, RUST, DUST, pH > 4.0.

INCOMPATIBILITIES WITH OTHER MATERIALS: STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS, ACETIC ACID, ACETIC ANHYDRIDE, ALCOHOLS, BRASS, COPPER, COPPER ALLOYS, FINELY POWDERED METALS, GALVANIZED IRON, HYDRAZINE, IRON, MAGNESIUM, NITRIC ACID, SODIUM CARBONATE, POTASSIUM PERMANGANATE, CYANIDES (E.G. POTASSIUM CYANIDE, SODIUM CYANIDE), ETHERS (E.G. DIOXANE, FURFURAN, TETRAHYDROFURAN (THF)), UREA, CHLOROSULFONIC ACID, ALKALIES, LEAD, NITROGEN COMPOUNDS, TRIETHYLAMINE, SILVER, NICKEL, PALLADIUM ORGANIC MATTER, CHARCOAL, SODIUM BORATE, ANILINE, PLATINUM, FORMIC ACID, CYCLOPENTADIENE, ACTIVATED CARBON, TERT-BUTYL ALCOHOL, HYDROGEN SELENIDE, MANGANESE DIOXIDE, MERCUROUS CHLORIDE, RUST, KETONES, CARBOXYLIC ACIDS, GLYCERINE, SODIUM FLUORIDE, SODIUM PYROPHOSPHATE, SOLUBLE FUELS (ACETONE, ETHANOL, GLYCEROL), WOOD, ASBESTOS, HEXAVALENT CHROMIUM COMPOUNDS, SALTS OF IRON, COPPER, CHROMIUM, VANADIUM, TUNGSTEN, MOLYBDEUM, AND PLATINUM.

HAZARDOUS DECOMPOSITION PRODUCTS: OXYGEN, HYDROGEN GAS, WATER, HEAT, STEAM.

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**6. REACTIVITY DATA (CONT):**

HAZARDOUS POLYMERIZATION:

MAY OCCUR: WILL NOT OCCUR: X

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**7. SPILL OR LEAK PROCEDURES:**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. CLEAN

UP SPILLS IMMEDIATELY, OBSERVING PRECAUTIONS IN THE PROTECTIVE EQUIPMENT SECTION. USE WATER SPRAY TO DISPERSE THE GAS/VAPOR. REMOVE ALL SOURCES OF IGNITION. ABSORB SPILL USING AN ABSORBENT, NON-COMBUSTIBLE MATERIAL SUCH AS EARTH, SAND, OR VERMICULITE. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. FLUSH SPILL AREA WITH WATER. PROVIDE VENTILATION. DO NOT GET WATER INSIDE CONTAINERS. KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL.

WASTE DISPOSAL METHODS: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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8. SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION (SPECIFY TYPE): APPROPRIATE NIOSH

VENTILATION: LOCAL EXHAUST: X MECHANICAL: OTHER:

PROTECTIVE GLOVES: APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT.

EYE PROTECTION: WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES.

OTHER PROTECTIVE EQUIPMENT: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE.

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9. SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING: WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE ONLY IN A WELL-VENTILATED AREA. CONTENTS MAY DEVELOP PRESSURE UPON PROLONGED STORAGE. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. KEEP CONTAINER TIGHTLY CLOSED. AVOID CONTACT WITH CLOTHING AND OTHER COMBUSTIBLE MATERIALS. DO NOT INGEST OR INHALE. STORE PROTECTED FROM LIGHT. DISCARD CONTAMINATED SHOES. UNUSED CHEMICALS SHOULD NOT BE RETURNED TO THE CONTAINER. RINSE EMPTY DRUMS AND CONTAINERS THOROUGHLY WITH WATER BEFORE DISCARDING.

STORAGE: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE

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9. SPECIAL PRECAUTIONS (CONT):

IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. STORE PROTECTED FROM LIGHT. KEEP AWAY FROM ALKALIES, OXIDIZABLE MATERIALS, FINELY DIVIDED METALS, ALCOHOLS, AND PREMANGANATES. STORE BELOW 35°C. STORE ONLY IN LIGHT-RESISTENT CONTAINERS FITTED WITH A SAFETY VENT.

OTHER PRECAUTIONS: NA

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10. OTHER INFORMATION: NA

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