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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: 11/1/2012  
 REVISION: 6

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1. IDENTIFICATION:

PRODUCT NAME: QUICKGEL CK VIS- 10,20 SAMPLES

PRODUCT NO.: 3334, 3534T

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

<u>PRODUCT NUMBER</u>	<u>PRODUCT IDENTIFICATION (LABEL NAME)</u>	<u>COMMENTS</u>
552019	QUICKGEL CK GEL	
551959	CITRIC ACID DESTAIN	
	HAZARDOUS INGREDIENT	CAS # %
	CITRIC ACID	77-92-9 100%
		MSDS ATTACHED
552028	SPIFE CK REAGENT KIT	
552021	SPIFE CK REAGENT	NON-HAZARDOUS
552024	SPIFE CK DILUENT	NON-HAZARDOUS
552025	SPIFE CK ACTIVATOR	NON-HAZARDOUS
552026	SPIFE CK CHROMOGEN	
	HAZARDOUS INGREDIENT	CAS # %
	N.N-DIMETHYLFORMAMIDE	68-12-2 98%
	TETRANITRO BLUE TETRAZOLIUM	1184-43-6 < 3
		MSDS ATTACHED

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ATTACHED IS THE MSDS FOR THE ABOVE NAMED HAZARDOUS INGREDIENT.

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DATE PREPARED: 11/1/2012
REVISION: 4

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1. IDENTIFICATION:

NAME: CITRIC ACID

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2. CHEMICAL COMPOSITION:

Table with 5 columns: CHEMICAL NAME/COMMON NAME, CAS #, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: CITRIC ACID, 77-92-9, 100, NIF, NIF.

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NA = Not Applicable NE = Not Established
NL = Not Listed NIF = No Information Found

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3. HAZARD IDENTIFICATION:

EMERGENCY OVERVIEW

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? X SKIN? X INGESTION? X

ACUTE EFFECT OF OVEREXPOSURE:

EYES: CAN CAUSE SEVERE EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, REDNESS, AND SWELLING OF EYES. CAN INJURE EYE TISSUE.

SKIN: CAN CAUSE SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING OF SKIN AND OTHER SKIN DAMAGE.

INHALATION: BREATHING SMALL AMOUNTS OF THIS MATERIA DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL.

INGESTION: SWALLOWING SMALL AMOUNTS OF THIS MATERIAL DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.

CHRONIC EFFECTS OF EXPOSURE: PROLONGED EXPOSURE MAY DAMAGE TOOTH ENAMEL.

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4. FIRST AID MEASURES:

EYE CONTACT: FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART; SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSISTS, SEEK MEDICAL ATTENTION. LAUNDRER CLOTHING BEFORE REUSE.

INHALATION: IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSISTS, SEEK MEDICAL ATTENTION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. KEEP PERSON WARM AND QUIET; SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH THE HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY, OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

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5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): >100°C

FLAMMABLE LIMITS: NIF LEL UEL

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5. FIRE AND EXPLOSION HAZARD DATA (cont):

EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE (CO2), DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE HAZARDS ARE KNOWN TO BE ASSOCIATED WITH THIS PRODUCT. WEAR FULL FIREFIGHTING TURN-OUT GEAR (FULL BUNKER GEAR), AND RESPIRATORY PROTECTION (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS: NIF

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6. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SHOVEL MATERIALS INTO CONTAINERS. THOROUGHLY SWEEP AREA OF SPILL TO CLEAN UP ANY RESIDUAL MATERIAL. SWEEP UP MATERIAL FOR DISPOSAL OR RECOVERY.

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7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPITED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED. STORE IN A COOL, DRY, VENTILATED AREA, AWAY FROM INCOMPATIBLE SUBSTANCE.

OTHER PRECAUTIONS: NIF

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8. EXPOSURE CONTROL/PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): IF NEEDED, USE A NIOSH-APPROVED DUST RESPIRATOR. (ASK YOUR SAFETY REPRESENTATIVE.)

VENTILATION: LOCAL EXHAUST: X MECHANICAL: OTHER:

PROTECTIVE GLOVES: CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: GOGGLES OR SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: WEAR NORMAL WORK CLOTHING COVERING ARMS AND LEGS.

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9. PHYSICAL DATA:

BOILING POINT: NA SPECIFIC GRAVITY (H2O = 1): pH .2.2@10 g/L

VAPOR PRESSURE (MM HG.): 0 MELTING POINT: 153°C AUTOIGNITION TEMP: 1010°C

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9. PHYSICAL DATA (cont):

VAPOR DENSITY (AIR = 1): NO DATA

SOLUBILITY IN WATER: SOLUBLE APPEARANCE AND ODOR: ODORLESS WHITE CRYSTALLINE

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10. STABILITY AND REACTIVITY:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ALKALIS

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE, HYDROCARBONS

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

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11. TOXICOLOGICAL INFORMATION:

LD50/LC50: LD50 MOUSE: 5040 MG/KG

REPRODUCTIVE TOXICITY: CITRIC ACID DID NOT CAUSE HARMFUL EFFECTS ON DEVELOPING FETUS WHEN GIVEN IN THE DIET OF LABORATORY ANIMALS, EVEN AT CONCENTRATIONS WHICH WERE HARMFUL TO THE PREGNANT ANIMALS.

IRRITANCY, SENSITIVITY: NIF

CARCINOGENICITY: NL NTP? IARC? OSHA?

POTENTIAL HEALTH EFFECTS:

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12. ECOLOGICAL INFORMATION: NIF

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13. DISPOSAL CONSIDERATIONS: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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14. TRANSPORTATION INFORMATION: NOT DANGEROUS GOODS

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15. REGULATORY INFORMATION:

CALIFORNIA PROPOSITION 65: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH, OR ANY OTHER REPRODUCTIVE DEFECTS.

	HEALTH	FLAMMABILITY	REACTIVITY	OTHER
HMIS	1	1	0	
NFPA	1	1	0	

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16. OTHER INFORMATION: NONE

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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: 11/1/2012
REVISION: 4

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1. IDENTIFICATION:

NAME: N.N-DIMETHYLFORMAMIDE

CAS #: 68-12-2

MOLECULAR FORMULA: C3H7NO

MOLECULAR WEIGHT: 73.09

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2. CHEMICAL COMPOSITION:

Table with 5 columns: CHEMICAL NAME/COMMON NAME, CAS #, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: N.N-DIMETHYLFORMAMIDE, 68-12-2, 100, 30 MG/M3, 10 PPM

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NA = Not Applicable
NL = Not Listed

NE = Not Established
NIF = No Information Found

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3. HAZARD IDENTIFICATION:

EMERGENCY OVERVIEW: FLAMMABLE LIQUID AND VAPOR. HARMFUL IF ABSORBED THROUGH SKIN OR IF INHALED.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? X SKIN? X INGESTION? X

ACUTE EFFECT OF OVEREXPOSURE:

EYES: IRRITATING TO EYES. LACHRYMATOR (SUBSTANCE WHICH INCREASES THE FLOW OF TEARS.)

SKIN: HARMFUL IN CONTACT WITH SKIN. IRRITATING TO SKIN.

INHALATION: HARMFUL BY INHALATION. MAY CAUSE METHEMOGLOBINEMIA. INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE IRRITATION OF RESPIRATORY TRACT.

INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE ADVERSE LIVER EFFECTS. MAY CAUSE ADVERSE KIDNEY EFFECTS. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

CHRONIC EFFECTS OF EXPOSURE: MAY CAUSE HARM TO THE UNBORN CHILD. EXPERIMENTS HAVE SHOWN REPRODUCTIVE TOXICITY EFFECTS ON LABORATORY ANIMALS. MAY CAUSE ADVERSE LIVER EFFECTS. MAY CAUSE ADVERSE KIDNEY EFFECTS.

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4. FIRST AID MEASURES:

EYE CONTACT: RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.

SKIN CONTACT: WASH OFF IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.

INHALATION: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT USE MOUTH-TO-MOUTH RESUCITATION IF VICTIM INGESTED OR INHALED THE SUBSTANCE; INDUCE ARTIFICIAL RESPIRATION WITH A RESPIRATORY MEDICAL DEVICE. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.

INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

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5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): 58°C/136.4°F

FLAMMABLE LIMITS: LEL 2.2% UEL 15.2%



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5. FIRE AND EXPLOSION HAZARD DATA (cont):

EXTINGUISHING MEDIA: USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. COOL CLOSED CONTAINERS EXPOSED TO FIRE WITH WATER SPRAY.

SPECIAL FIRE FIGHTING PROCEDURES: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. THERMAL DECOMPOSTION CAN LEAD TO RELEASE OF IRRITATING GASES OR VAPORS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLAMMABLE. RISK OF IGNITION. CONTAINERS MAY EXPLODE WHEN HEATED. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL TO SOURCE OF IGNITION AND FLASH BACK.

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6. SPILL OR LEAK PROCEDURES:

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

PERSONAL PRECAUTIONS: ENSURE ADEQUATE VENTIALTION. USE PROTECTIVE EQUIPMENT. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. EVACUATE PERSONNEL TO SAFE AREAS. REMOVE ALL SOURCES OF IGNITION. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

ENVIRONMENTAL PRECAUTIONS: SHOULD NOT BE RELEASED INTO THE ENVIRONMENT.

METHODS FOR CONTAINMENT AND CLEAN UP: SOAK UP WITH INERT ABSORBENT MATERIAL. KEEP IN SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL. REMOVE ALL SOURCES OF IGNITION. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT.

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7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING: USE ONLY UNDER A CHEMICAL FUME HOOD. WEAR PERSONAL PROTECTIVE EQUIPMENT. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE VAPORS OR SPRAY MIST. KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCES OF IGNITION. USE ONLY NON-SPARKING TOOLS. USE EXPLOSION-PROOF EQUIPMENT. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION. FLAMMABLE AREAS.

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8. EXPOSURE CONTROL/PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH/MSHA-APPROVED

VENTILATION: LOCAL EXHAUST: MECHANICAL: X
OTHER:

PROTECTIVE GLOVES: WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN EXPOSURE.

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

OTHER PROTECTIVE EQUIPMENT:

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9. PHYSICAL DATA:

BOILING POINT: 153°C SPECIFIC GRAVITY (H2O = 1): 0.945
pH: 6-8. 20% aq.sol.

VAPOR PRESSURE (MM HG.): MELTING POINT: -61°C
4.9 mbar @20°C

VAPOR DENSITY (AIR = 1): 2.5

SOLUBILITY IN WATER: SOLUBLE APPEARANCE AND ODOR: COLORLESS LIQUID WITH ROTTEN-EGG LIKE ODOR

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10. STABILITY AND REACTIVITY:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, HALOGENS, HALOGENATED COMPOUNDS.

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: CARBON MONOXIDE (CO), CARBON DIOXIDE (CO2), NITROGEN OXIDES (NOx).

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

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11. TOXICOLOGICAL INFORMATION:

LC50 INHALATION (DUST) VALUE: 9400 mg/m3/24 (MOUSE)
LC50 INHALATION (VAPOR) VALUE: 3421 ppm/h (RAT)

REPRODUCTIVE TOXICITY: EXPERIMENTS HAVE SHOWN REPRODUCTIVE TOXICITY EFFECTS ON LABORATORY ANIMALS.

IRRITANCY, SENSITIVITY: IRRITATING TO EYES AND SKIN.

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11. TOXICOLOGICAL INFORMATION (cont):

CARCINOGENICITY: NO NTP? IARC? OSHA?

POTENTIAL HEALTH EFFECTS: MAY CAUSE METHEMOGLOBINEMIA. IRRITATING TO EYES AND SKIN. LACHRYMATOR (SUBSTANCE WHICH INCREASES THE FLOW OF TEARS). MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE ADVERSE LIVER EFFECTS. MAY CAUSE ADVERSE KIDNEY EFFECTS. MAY CAUSE HARM TO THE UNBORN CHILD.

12. ECOLOGICAL INFORMATION: READILY BIODEGRADABLE.

13. DISPOSAL CONSIDERATIONS: OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

14. TRANSPORTATION INFORMATION:

DOT
UN#: UN2265
PROPER SHIPPING NAME: N,N-DIMETHYLFORMAMIDE
HAZARD CLASS: 3
PACKING GROUP: III

15. REGULATORY INFORMATION:

SARA 313: THRESHOLD VALUE % -1.0

16. OTHER INFORMATION:

HAZARD RATINGS:
NFPA: HEALTH = 2 FLAMMABILITY = 2 INSTABILITY = 0
PHYSICAL HAZARDS = NA

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DATE PREPARED: 11/1/2012
REVISION: 4

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1. IDENTIFICATION:

NAME: TETRANITRO BLUE TETRAZOLIUM

CAS #: 1184-43-6

MOLECULAR FORMULA: C4OH28CL2N12O10

MOLECULAR WEIGHT: 907.60

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2. CHEMICAL COMPOSITION:

Table with 5 columns: CHEMICAL NAME/COMMON NAME, CAS #, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: TNBT, 1184-43-6, 100, NIF, NIF

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NA = Not Applicable
NL = Not Listed

NE = Not Established
NIF = No Information Found

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3. HAZARD IDENTIFICATION:

EMERGENCY OVERVIEW: NO KNOWN OSHA HAZARDS.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION?

SKIN?

INGESTION?

ACUTE EFFECT OF OVEREXPOSURE:

EYES: MAY CAUSE EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION.

INHALATION: MAY BE HARMFUL IF INHALED.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

CHRONIC EFFECTS OF EXPOSURE:

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4. FIRST AID MEASURES:

EYE CONTACT: FLUSH EYES WITH WATER AS A PRECAUTION.

SKIN CONTACT: WASH OFF WITH SOAP AND PLENTY OF WATER.

INHALATION: IF BREATHED IN. MOVE PERSON INTO FRSH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER.

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5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): NA

FLAMMABLE LIMITS: NA LEL UEL

EXTINGUISHING MEDIA: CO2, EXTINGUISHING POWDER OR WATER SPRAY. FIGHT LARGER FIRES WITH WATER SPRAY OR ALCOHOL RESISTANT-FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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6. SPILL OR LEAK PROCEDURES:

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

WEAR PROTECTIVE CLOTHING.

DO NOT ALLOW TO ENTRE SEWERS/SURFACE OR GROUND WATER.

PICKUP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

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7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

PREVENT FORMATION OF DUST.

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH/MSHA-APPROVED RESPIRATOR

VENTILATION: LOCAL EXHAUST: MECHANICAL: X
OTHER:

PROTECTIVE GLOVES: CHEMICAL RESISTANT GLOVES.

EYE PROTECTION: SAFETY GLASSES OR GOGGLES.

OTHER PROTECTIVE EQUIPMENT: SAFETY SHOWER AND EYE BATH.

9. PHYSICAL DATA:

BOILING POINT: NO DATA AVAILABLE SPECIFIC GRAVITY (H2O = 1): NIF
pH: NIF

VAPOR PRESSURE (MM HG.): NO DATA AVAILABLE MELTING POINT: >160°C

VAPOR DENSITY (AIR = 1): NO DATA AVAILABLE

SOLUBILITY IN WATER: NIF APPEARANCE AND ODOR: YELLOW
ODORLESS POWDER

10. STABILITY AND REACTIVITY:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): NO DATA AVAILABLE

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: HAZARDOUS DECOMPOSITION
PRODUCTS UNDER FIRE CONDITIONS. CARBON OXIDES, NITROGEN OXIDES (NOx),
HYDROGEN CHLORIDE GAS.

HAZARDOUS POLYMERIZATION:
MAY OCCUR: WILL NOT OCCUR: X

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11. TOXICOLOGICAL INFORMATION:

LD50/LC50:

REPRODUCTIVE TOXICITY: NO DATA AVAILABLE

IRRITANCY, SENSITIVITY: NO DATA AVAILABLE

CARCINOGENICITY: NO DATA AVAILABLE NTP? NO IARC? NO OSHA? NO

POTENTIAL HEALTH EFFECTS: TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

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12. ECOLOGICAL INFORMATION: NO DATA AVAILABLE.

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13. DISPOSAL CONSIDERATIONS: OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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14. TRANSPORTATION INFORMATION:

DOT (US)  
NOT DANGEROUS GOODS

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15. REGULATORY INFORMATION: NO KNOWN OSHA OR SARA HAZARDS.

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16. OTHER INFORMATION:

NFPA RATINGS:  
HEALTH = 0 FLAMMABILITY = 0 REACTIVITY = 0

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