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MANUFACTURER / EMERGENCY INFORMATION  
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HELENA CHEMICAL COMPANY  
6075 POPLAR, SUITE 500  
MEMPHIS, TN 38119

EMERGENCY TELEPHONE NUMBER:  
1. (901) 761-0050  
2. CHEMTREC (800) 424-9300

EFFECTIVE DATE: 05/20/96  
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I. IDENTIFICATION  
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CHEMICAL NAME	INORGANIC LIQUID FERTILIZER.
CHEMICAL FAMILY	WATER SOLUBLE FERTILIZER.
FORMULA	NOT APPLICABLE, FORMULATED MIXTURE.
SYNONYMS	TRACITE 20-20-20 GREENHOUSE
CAS NUMBER	SEE INGREDIENT STATEMENT, SECTION III.
EPA REGISTRY NO.	NONE REQUIRED

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II. PHYSICAL DATA  
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BOILING POINT	NOT ESTABLISHED
FREEZING POINT	NOT APPLICABLE
SPECIFIC GRAVITY	NOT ESTABLISHED
VAPOR PRESSURE	NOT APPLICABLE
VAPOR DENSITY	NOT APPLICABLE
SOLUBILITY IN WATER	99%
PER CENT VOLATILES	<0.1%
EVAPORATION RATE	NOT APPLICABLE
MELTING POINT	NOT ESTABLISHED
APPEARANCE & ODOR	BLUE/GREEN SOLID

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III. INGREDIENTS  
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.....MATERIAL.....	.....%	.....TLV(UNITS).....	.....HAZARD.....
-	CAS NUMBER		
BLEND OF DIAMMONIUM PHOSPHATE, UREA AND POTASSIUM NITRATE FERTILIZER	-----	100.00 15 MG/M3	SKIN & EYE IRRITANT

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IV. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT	:	NON-COMBUSTIBLE
AUTOIGNITION TEMPERATURE:		NOT APPLICABLE
FLAMMABLE LIMITS	:	NOT APPLICABLE

EXTINGUISHING MEDIA:  
- NON-COMBUSTIBLE SOLID - USE EXTINGUISHING MEDIA FOR UNDERLYING  
- CAUSE OF FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

- USE POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS
- WITH FULL PROTECTIVE CLOTHING.

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UNUSUAL FIRE AND EXPLOSION HAZARDS:

- PRODUCT MAY PRODUCE TOXIC FUMES UNDER FIRE CONDITIONS.

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V. HEALTH HAZARD  
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-CARCINOGENICITY INFORMATION: NONE CURRENTLY KNOWN.

-ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING:

- INGESTION RESULTS IN VOMITING AND ABDOMINAL CRAMPS.

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SKIN ABSORPTION:

- NONE CURRENTLY KNOWN.

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INHALATION:

- NONE CURRENTLY KNOWN.

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SKIN CONTACT:

- MAY CAUSE SKIN IRRITATION WITH PROLONG OR REPEATED EXPOSURE.

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EYE CONTACT:

- EYE IRRITATION.

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CHRONIC EFFECTS:

- NONE CURRENTLY KNOWN.

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OTHER HEALTH HAZARD:

- NONE CURRENTLY KNOWN.

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-EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING:

- GIVE 1 TO 3 GLASSES OF WATER TO DRINK, DO NOT INDUCE VOMITING.
- CONSULT A PHYSICIAN IMMEDIATELY.

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SKIN:

- WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

INHALATION:

- MOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, OBTAIN MEDICAL ATTENTION IMMEDIATELY.

EYES:

- FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN.
- IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

- NOTES TO PHYSICIAN

- IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED

- TOWARD CONTROL OF THE SYMPTOMS AND THE CLINICAL CONDITION OF THE
- PATIENT.
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- INGESTION MAY RESULT IN CORROSIVE DAMAGE TO THE DIGESTIVE TRACT.
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#### VI. REACTIVITY DATA

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STABILITY : STABLE  
CONDITIONS TO AVOID: EXCESSIVE HEAT.

POLYMERIZATION : WILL NOT OCCUR  
CONDITIONS TO AVOID: NONE CURRENTLY KNOWN.

INCOMPATIBILITY: STRONG ACIDS AND ALKALINE MATERIALS.  
MATERIALS

HAZARDOUS : NITROGEN OXIDES, OXIDES OF CARBON, AMMONIA GAS, AND,  
COMBUSTION PHOSPHORIC ACID UNDER FIRE CONDITIONS.

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#### VII. SPILL OR LEAK PROCEDURES

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- STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
- SWEEP UP MATERIAL AND REUSE, IF UNCONTAMINATED. IF CONTAMINATED,
  - TRANSFER MATERIAL TO A SUITABLE CONTAINER FOR PROPER DISPOSAL. DO NOT
  - CONTAMINATE WATER SUPPLIES.
- WASTE DISPOSAL METHOD
- THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL
  - PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.
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#### VIII. SPECIAL PROTECTION INFORMATION

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RESPIRATION : USE NIOSH/MSHA APPROVED DUST RESPIRATOR.

VENTILATION : LOCAL EXHAUST SUFFICIENT.

GLOVES : IMPERVIOUS

EYES : CHEMICAL WORKERS GOGGLES.

OTHERS : EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

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#### IX. SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER
- MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT
- CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS.
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- PROTECT AGAINST PHYSICAL DAMAGE. STORE IN COOL, DRY PLACE. SEPERATE
- FROM COMBUSTIBLE, ORGANIC OR OTHER READILY OXIDIZABLE MATERIALS.
- AVOID STORAGE ON WOOD FLOORS. IMMEDIATELY REMOVE AND DISPOSE OF ANY
- SPILLED MATERIAL.

OTHER PRECAUTIONS

- NONE CURRENTLY KNOWN.
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X. SHIPPING INFORMATION  
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D.O.T. DATA - PROPER SHIPPING NAME:

- NOT REGULATED BY DOT

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HAZARD CLASS : NONE

IDENTIFICATION NO.: NONE

LABELS REQUIRED : NONE

PLACARDING : NONE

FREIGHT CLASSIFICATION:

- COMPOUND, FERTILIZER, (MANUFACTURED FERTILIZER), DRY, NOIBN

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..CHEMICAL NAME ..... EQUIVALENT R.Q.

NOT APPLICABLE NOT APPLICABLE

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XI. GENERAL PRODUCT INFORMATION  
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NATIONAL FIRE PROTECTION ASSOCIATION RATING:

(RATING LEVEL: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-MINIMUM

HEALTH: 1 FIRE: 0 REACTIVITY: 0

S.A.R.A. TITLE III HAZARD CLASSIFICATION: (YES / NO)

IMMEDIATE (ACUTE) HEALTH : Y DELAYED (CHRONIC) HEALTH : N

SUDDEN RELEASE OF PRESSURE: N

FIRE : N REACTIVE : N

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