

MATERIAL SAFETY DATA SHEET



IBI SCIENTIFIC
9861 KAPP COURT
PEOSTA, IA 52068

EMERGENCY TELEPHONE NUMBER:
3E COMPANY (800) 451-8346
(001) 760-602-8703

TELEPHONE NUMBER FOR INFORMATION:
(800) 253-4942 OR (563) 690-0484
E-MAIL: INFO@IBISCI.COM

DATE PREPARED: 8-31-98

DATE REVISED: 1-13-10

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

CATALOG#: IB05085
NAME: GUANIDINE HCL SOLUTION
CAS#: 50-01-1

SECTION 2. ----- HAZARDS IDENTIFICATION -----
LABEL PRECAUTIONARY STATEMENTS

TOXIC (USA)

HARMFUL (EU)

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

CAUSES SEVERE IRRITATION.

TARGET ORGAN(S):

BONE MARROW

NERVES

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

HMIS: NFPA:

H: 3 H: N/A

F: 0 F: N/A

R: 0 R: N/A

PE: I SH: N/A

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

MF: CH₅N₃

EC NO: 200-002-3

SYNONYMS

AMINOFORMAMIDINE HYDROCHLORIDE * AMINOMETHANAMIDINE HYDROCHLORIDE *
CARBAMIDINE HYDROCHLORIDE * GUANIDINE CHLORIDE * GUANIDINE
HYDROCHLORIDE * GUANIDINIUM CHLORIDE * GUANIDINIUM HYDROCHLORIDE *
IMINOUREA HYDROCHLORIDE * USAF EK-749 *

SECTION 4. ----- FIRST-AID MEASURES-----

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

AVOID RAISING DUST.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

AVOID INHALATION.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

TOXIC.

SEVERE IRRITANT.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

STORE AT ROOM TEMPERATURE.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

CHEMICAL FUME HOOD RECOMMENDED.

SAFETY SHOWER AND EYE BATH.

FACESHIELD (8-INCH MINIMUM).

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR

WHITE CRYSTALLINE POWDER

PHYSICAL PROPERTIES

MELTING POINT: 185°C TO 189°C

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

NITROGEN OXIDES

HYDROGEN CHLORIDE GAS

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

CAUSES SEVERE IRRITATION.

HIGH CONCENTRATIONS ARE EXTREMELY DESTRUCTIVE TO TISSUES OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

MAY CAUSE NERVOUS SYSTEM DISTURBANCES.

TARGET ORGAN(S):

BONE MARROW

NERVES

RTECS #: MF4300000

GUANIDINE, MONOHYDROCHLORIDE

IRRITATION DATA

SKN-RBT 500 MG/24H SEV

NTIS** AD-A166-306

EYE-RBT 81400 UG MOD

NTIS** AD-A184-068

TOXICITY DATA

ORL-RAT LD50:475 MG/KG

NTIS** AD-A165-747

ORL-MUS LD50:571 MG/KG

ATDAEI 12,598,1993

IPR-MUS LD50:500 MG/KG

NTIS** AD277-689

TARGET ORGAN DATA

BEHAVIORAL (ALTERED SLEEP TIME)

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)

BEHAVIORAL (EXCITEMENT)

BEHAVIORAL (MUSCLE CONTRACTION OR SPASTICITY)

BEHAVIORAL (IRRITABILITY)

LUNGS, THORAX OR RESPIRATION (DYSPPNAE)

GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

NOT REGULATED.

SECTION 15. REGULATORY INFORMATION -

EUROPEAN INFORMATION

EC INDEX NO: 607-148-00-0

TOXIC

R 23/24/25

HARMFUL IF SWALLOWED.



Toxic (T)

R 36/38

IRRITATING TO EYES AND SKIN.



Irritant (Xi)

S 22

DO NOT BREATHE DUST.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOES 1983: HZD X3755; NIS 2; TNF 115; NOS 22; TNE 2097; TFE 589

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

SECTION 16. OTHER INFORMATION-

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IBI SCIENTIFIC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.