

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

click <http://www.biochemie.com/cas/79/79-12-7.html> for suppliers of this product.

### Composition/Information on Ingredient

13-12-7  
**Code:**  
T

**RTECS:**  
LQ0525000  
**Code:**  
T

**Name:**  
FORMAMIDE Environmental Wt: Other REC Limits: N

**Other REC Limits:**  
N/P

**OSHA PEL:**  
N/P  
**Code:**

**OSHA STEL:**  
N/P  
**Code:**

**ACGIH TLV:**  
N/P  
**Code:**

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE TLV/PEL), A NIOSH APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS A LSO PERMIT OTHER NIOSH RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR SAFETY EQUIPMENT SUPPLIER).

**Ventilation:**  
ENGINEERING &/OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOS. MATL MUST BE HANDLED OR TRANSFERRED IN APPRVD FUME HOOD OR W/EQUIVALENT VENT.

**Protective Gloves:**  
PROTECTIVE GLOVES (BUTYL RUBBER, VITON OR EQUIVALENT).

**Eye Protection:**  
ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:**  
Equipment 4 EYE WASH AND DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). IMPERVIOUS PROTECTIVE CLOTHING SHOULD BE WORN TO PREVENT SKIN CONTACT.

**Work Hygienic Practices:**  
WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

**Supplemental Safety and Health:**  
SPILL PROC: W/FEDERAL, STATE & LOCAL REGS ON REPORTING RELEASES. REFER TO REGULATORY INFO FOR

**LD50LC50Mixture:**

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS MEMBRANES. INHALATION MAY IRRITATE NASAL AND RESPIRATORY PASSAGES. INGESTION CAN CAUSE HEADACHE, DIZZINESS, NAUSEA, LIVER INJURY. FORMAMIDE CAN BE ABSORBED THROUGH THE SKIN. SPECIAL WARNING TO PREGNANT WORKERS: AVOID ANY EXPOSURE TO FORMAMIDE UNLESS ALL PRECAUTIONS ON MSDS ARE OBSERVED. SMALL AMOUNTS OF FORMAMIDE, IF REPEATEDLY INHALED, INGESTED OR ABSORBED THROUGH THE SKIN MAY CAUSE FETAL INJURY. 2

**Explanation Of Carcinogenicity:**  
N/P

**Signs And Symptoms Of Overexposure:**  
SEE HEALTH HAZARDS.

**Medical Cond Aggravated By Exposure:**  
PREGNANCY.

**First Aid:**  
GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. SKIN: IMMEDIATELY FLUSH THOROUGHLY WITH LARGE AMOUNTS OF WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. INGESTION: IF CONSCIOUS, DRINK WATER AND INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. REMOVE CONTAMINATED

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**Flash Point Method:**  
COC

**Flash Point:**  
=154.4C, 310.F

**Flash Point Text:**

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/P

**Lower Limits:**  
N/A

**Upper Limits:**  
N/A

**Extinguishing Media:**  
CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY.

**Fire Fighting Procedures:**  
USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

**Unusual Fire/Explosion Hazard:**  
PRODUCES TOXIC FUMES ON THERMAL DECOMPOSITION.

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## Physical/Chemical Properties

**Net Prop WT For Ammo:**

**Boiling Point:**  
=210.C, 410.F

**B.P. Text:**  
DECOMPOSES

**Melt / Freeze Pt:**  
=2.5C, 36.5F

**M.P/F.P Text:**

**Decomp Temp:**

**Decomp Text:**  
N/P

**Vapor Pres:**  
1 MM HG @ 70C

**Vapor Density:**  
1.6(AIR=1)

**Volatile Org Content %:**

**Spec Gravity:**  
1.134 (H\*20=1)

**VOC Pounds/Gallon:**

**PH:** N/P

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
>1 (BUAC=1)

**Solubility in Water:**  
MISCIBLE

**Appearance and Odor:**  
COLORLESS TO PALE YELLOW LIQUID; AMMONIA-LIKE ODOR.

**Percent Volatiles by Volume:**  
100

**Corrosion Rate:**  
N/P

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**Reactivity Data**

**Stability Indicator:**

### Stability Condition To Avoid

**Materials To Avoid:**  
ACIDS, BASES, OXIDIZERS, I\*2, PYRIDINE, SO\*3.

**Hazardous Decomposition Products:**  
CO\*X, AMMONIA, NO\*X, FORMIC ACID.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/P

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## Toxicological Information

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**Information:**N/P

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## MSDS Transport Information

**Information:**N/P

## Results

**Sara Title III Information:** N/P

**State Regulatory Information:** N/P

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**Other Information**

For R&amp;D use

**WARRANTY**  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any