

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-50/50-01-1.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
50-01-1  
**Code:**  
M

**RTECS:**  
MF4300000  
**Code:**  
M

**Name:**  
MONOHYDROCHLORIDE

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M

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

## Control Measures

**Respiratory Protection:**  
NOT NECESSARY UNDER NORMAL USAGE. IF DUSTS ARE GENERATED WEAR AN ORGANIC VAPOR/ACID GAS RESPIRATOR W/DUST PREFILTER. FOR EMERGENCIES, ADDITIONAL RESPIRATORY PROTECTION WOULD DEPEND ON THE SITE SPECIFIC CONDITIONS.

**Ventilation:**  
GENERAL ROOM. IF DUSTS DEVELOPED, USE A CHEMICAL FUME HOOD. FOR EMERGENCIES, MECHANICAL VENTILATION.

**Protective Gloves:**  
LATEX OR RUBBER

**Eye Protection:**  
SAFETY GOGGLES

**Other Protective Equipment:**  
Equipment LAB COAT, EYEWASH & DELUGE SHOWER ADDITIONAL ENCAPSULATORY CLOTHING MAY BE NECESSARY.

**Work Hygienic Practices:**  
REMOVE & WASH CONTAMINATED CLOTHES BEFORE REUSE. DON'T EAT/DRINK/SMOKE AROUND THIS PRODUCT. WASH HANDS THOROUGHLY.

**Supplemental Safety and Health:**  
3 FOR IN VITRO DIAGNOSTIC USE ONLY. KIT CONTAINS 3 BOTTLES OF BUFFER W/250 ML IN EACH. IT IS USED IN CONJUNCTION W/CAT NO: 1111191.

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

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

**Skin:**  
NO

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INGESTION: POISON, MODERATELY TOXIC. SKIN: MODERATE TOXICITY, IRRITATION. EYE: IRRITATION. INHALATION: DIARRHEA, NAUSEA, NEUROLOGICAL & NERVOUS SYSTEM PROBLEMS CAN OCCUR. INJECTION: POISON.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptoms Of Overexposure:**  
N/K

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
EYE: IMMEDIATELY FLUSH W/LARGE AMOUNTS OF FRESH WATER FOR AT LEAST 15 MINS. SKIN: WASH CONTAMINATED BODY AREA W/LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINS. INGESTION: KEEP VICTIM WARM & CALM. INHALATION: REMOVE TO FRESH AIR. IF BREATHING BECOMES LABORED, GIVE OXYGEN. IF BREATHING SS ADMINISTER ARTIFICIAL RESPIRATION. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
EVACUATE & VENTILATE AREA. CONTAIN & CLEAN UP SPILL. PLACE USED ABSORBENT IN SUITABLE CONTAINER, RESEAL LID, & HOLD FOR APPROPRIATE WASTE DISPOSAL. AFTER CLEAN UP, WASH SPILL SITE W/WATER.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
2 DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
KEEP PRODUCT COOL & DRY. STORE IN A SEALED CONDITION. KEEP AWAY FROM HEAT & FLAMES.

**Other Precautions:**  
N/K

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/K

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
USE MEDIA AS APPROPRIATE FOR SITE SPECIFIC CONDITIONS.

**Fire Fighting Procedures:**  
WEAR THE SUITABLE PROTECTIVE CLOTHING & EQUIPMENT AS NEEDED FOR THE FIRE SCENE.

**Unusual Fire/Explosion Hazard:**  
N/K

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/K

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/K

**Vapor Density:**  
N/K

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
N/K

**Appearance and Odor:**  
N/K

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXCESS HEAT, FLAME OR PRESSURE

**Materials To Avoid:**  
FLUORINE, POTASSIUM NITRATE & DIKETENE

**Hazardous Decomposition Products:**  
MAY EMIT HIGHLY TOXIC FUMES OF HYDROGEN CHLORIDE & NITROGEN OXIDES. ALSO MAY EMIT DISODIUM OXIDE (A TOXIC EMISSION).

**Hazardous Polymerization Indicator:**  
NO

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

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

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

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P