MSDS for N-Methylformamide, 99+%  

Section 1 - Chemical Product and Company Identification  

MSDS Name: N-Methylformamide, 99+%  
Catalog Numbers: 41433-0000, 41433-0050, 41433-1000  
Synonyms:  
Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaalaaan 3a  
2440 Geel, Belgium  
Company Identification: (USA)  
Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410  
For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11  
Emergency Number, Europe: +32 14 57 52 99  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients  

CAS# Chemical Name: % EINECS#  
123-39-7 N-Methylformamide 99+% 204-624-6  
Hazard Symbols: T  
Risk Phrases: 61 21  

Section 3 - Hazards Identification  

EMERGENCY OVERVIEW

Harmful in contact with skin. May cause harm to the unborn child.  

Potential Health Effects  
Eye: May cause eye irritation.  
Skin: May cause skin irritation. Harmful if absorbed through the skin. Substance is readily absorbed through the skin.  
Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.  
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.  
Chronic:  

Section 4 - First Aid Measures  

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Ingestion: Get medical aid. Wash mouth out with water.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits: CAS# 123-39-7:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: colorless
Odor: weak odor

PH: 6-8 (250g/l aq.sol.)

Vapor Pressure: 0.2 mbar @20 deg C
Viscosity: 1.9 mPa.s@20 deg C

Boiling Point: 199-201 deg C@760 mmHg
Freezing/Melting Point: -3.2 deg C (26.24 deg F)
Autoignition Temperature: 425 deg C (797.00 deg F)
Flash Point: 111 deg C (231.80 deg F)

Explosion Limits: Lower: 3.8 vol%
Explosion Limits: Upper: 17.8 vol%
Decomposition Temperature: Not available
Solubility in water: Miscible
Specific Gravity/Density: 1.003g/cm3
Molecular Formula: C2H5NO
Molecular Weight: 59.06

Section 10 - Stability and Reactivity

Chemical Stability: Stable.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials: Strong oxidizing agents, acids, bases, acid chlorides.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 123-39-7: LQ3000000
LD50/LC50:
RTECS:
CAS# 123-39-7: Draize test, rabbit, eye: 100 mg;
Oral, mouse: LD50 = 2600 mg/kg;
Oral, rat: LD50 = 4 gm/kg;
Other: Skin, rabbit: LD50 = 2000 mg/kg Inhalation, rat: LC50 = >4.1 mg/l/4h
Carcinogenicity: N-Methylformamide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information. Teratogen.
Mutagenicity: Ames-test: negative.

Section 12 - Ecological Information

Ecotoxicity: Daphnia: EC/LC50 = > 500 mg/l; 48 H; acuut
Algae: EC/LC50 = > 500 mg/l; 72 H; .
Bacteria: EC/LC50 = > 10 000 mg/l; 17 H; .
Other: Biodegradable.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

Shipping Name: Not available
Hazard Class: Not available
UN Number: Not available
Packing Group: Not available

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: T
Risk Phrases:
R 61 May cause harm to the unborn child.
R 21 Harmful in contact with skin.
Safety Phrases:
S 53 Avoid exposure - obtain special instructions before use.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 123-39-7: 1

Canada
CAS# 123-39-7 is listed on Canada's DSL List

US Federal
TSCA
CAS# 123-39-7 is listed on the TSCA Inventory.

Section 16 - Other Information
MSDS Creation Date: 7/16/1996
Revision #2 Date 7/25/2002
Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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