



Material Safety Data Sheet

N,N-Dimethylacetamide

MSDS# 96035

Section 1 - Chemical Product and Company Identification

MSDS Name: N,N-Dimethylacetamide

Catalog Numbers: AC115690000, AC115690010, AC115690025, AC115690050, AC167780000, AC167780010, AC167780010, AC167782500, AC181070000, AC181070010, AC181070025, AC181070050, AC181070050, AC181070051, AC375230000, AC375230010, AC375231000, AC378710000, AC378710000, AC378710010, AC378710025, AC390670000, AC390670010, AC390670025, AC390670025, AC390800000, AC390800010, AC390800025, AC396350000

Synonyms: NBS.

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 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#: 127-19-5

Chemical Name: N,N-Dimethylacetamide

%: 99+

EINECS#: 204-826-4

Hazard Symbols: T



Risk Phrases: 61 20/21

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! May cause respiratory tract irritation. Hygroscopic (absorbs moisture from the air). Causes eye and skin irritation. Combustible liquid and vapor. Harmful if absorbed through skin or if inhaled. May cause harm to the unborn child. Target Organs: Blood, kidneys, central nervous system, liver.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation. Inhalation of vapors may cause nausea, vomiting, dizziness, and loss of consciousness.

Chronic: May cause liver and kidney damage. Adverse reproductive effects have been reported in animals. Laboratory experiments have resulted in mutagenic effects. Chronic exposure may cause blood effects. Exposure to high concentrations may cause central nervous system depression. Possible risk of harm to the unborn child.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

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. Will burn if involved in a fire. Containers may explode in the heat of a fire. Combustible liquid and vapor.

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

Autoignition Temperature: 490 deg C (914.00 deg F)

Flash Point: 70 deg C (158.00 deg F)

Explosion Limits: 1.7 Vol %
Lower:

Explosion Limits: 11.5 Vol %
Upper:

NFPA Rating: health: 2; flammability: 2; instability: 1;

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. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. 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. Store under nitrogen.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
N,N-Dimethylacetamide	10 ppm; Skin - potential significant contribution to overall exposure by the cutaneous route	10 ppm TWA; 35 mg/m3 TWA 300 ppm IDLH	10 ppm TWA; 35 mg/m3 TWA

OSHA Vacated PELs: N,N-Dimethylacetamide: 10 ppm TWA; 35 mg/m3 TWA

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear, colorless

Odor: ammonia-like

pH: 4 (200 g/L aq. sol.)

Vapor Pressure: 1.7mbar @25 deg C

Vapor Density: 3.02 (air=1)

Evaporation Rate: 0.17 (butyl acetate=1)

Viscosity: 1.02 mPa s @20 deg C

Boiling Point: 164 - 166 deg C @760mmHg

Freezing/Melting Point: -20 deg C (-4.00°F)

Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density: 0.937

Molecular Formula: C4H9NO

Molecular Weight: 87.12

Section 10 - Stability and Reactivity

Chemical Stability: Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, ignition sources, exposure to moist air or water, heat.

Incompatibilities with Other Materials: Oxidizing agents, nitrates.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 127-19-5: AB7700000

RTECS:

CAS# 127-19-5: Draize test, rabbit, eye: 100 mg Mild;

Inhalation, mouse: LC50 = 7200 mg/m³;

Inhalation, rat: LC50 = 2475 ppm/1H;

LD50/LC50: Oral, mouse: LD50 = 4620 mg/kg;

Oral, rat: LD50 = 4300 mg/kg;

Skin, rabbit: LD50 = 2240 mg/kg;

Skin, rat: LD50 = >2 gm/kg;

Carcinogenicity: N,N-Dimethylacetamide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Daphnia: Daphnia: LC50 = 3400 mg/L; 48h; .

Other: Do not empty into drains.

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

Shipping Name: TOXIC LIQUIDS, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: UN2810

Packing Group: III

Canada TDG

Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.*

Hazard Class: 6.1

UN Number: UN2810

Packing Group: III

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 20/21 Harmful by inhalation and 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# 127-19-5: 1

Canada

CAS# 127-19-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3, D2A, D2B, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 127-19-5 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 127-19-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 11/14/1997

Revision #9 Date 3/24/2008

Revisions were made in Sections: 3, 4, 5, 6, 7, 8, 9, 10, 11, 1

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