

SAFETY DATA SHEET

Version 6.6 Revision Date 04/29/2022 Print Date 05/28/2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : N,N-Dimethylisopropylamine

Product Number : 550051
Brand : Aldrich
CAS-No. : 996-35-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone #: 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 4), H302

Acute toxicity, Oral (Category 4), 11302

Acute toxicity, Inhalation (Category 3), H331

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram





| Signal Word | Danger | |
|---|--|--|
| Hazard statement(s) H225 H302 H314 H331 H335 | Highly flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. Toxic if inhaled. May cause respiratory irritation. Toxic to aquatic life with long lasting effects. | |
| Precautionary statement(s |) Keep away from heat/ sparks/ open flames/ hot surfaces. No | |
| - | smoking. | |
| P233 | Keep container tightly closed. | |
| P240 P241 | Ground/bond container and receiving equipment. | |
| P241 P242 | Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. | |
| P243 | Take precautionary measures against static discharge. | |
| P261 | Avoid breathing mist or vapors. | |
| P264 | Wash skin thoroughly after handling. | |
| P270 | Do not eat, drink or smoke when using this product. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P273 | Avoid release to the environment. | |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. | |
| P301 + P312 + P330 | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. | |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. | |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. | |
| P304 + P340 + P310 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. | |
| P305 + P351 + P338 + | IF IN EYES: Rinse cautiously with water for several minutes. | |
| P310 | Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. | |
| P363 | Wash contaminated clothing before reuse. | |
| P370 + P378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. | |
| P391 | Collect spillage. | |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. | |
| P403 + P235 P405 | Store in a well-ventilated place. Keep cool. Store locked up. | |
| P501 | Dispose of contents/ container to an approved waste disposal | |
| 1 301 | pispose of contents/ container to all approved waste disposal | |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

plant.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : DMIPA

Formula : C5H13N Molecular weight : 87.16 g/mol



CAS-No. : 996-35-0 EC-No. : 213-635-5

| Component | Classification | Concentration | |
|----------------------------|--|---------------|--|
| N,N-Dimethylisopropylamine | | | |
| | Flam. Liq. 2; Acute Tox. 4; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; STOT SE 3; Aquatic Chronic 2; H225, H302, H331, H314, H318, H335, H411 | <= 100 % | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.



5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions



Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm

Break through time: 30 min

Material tested:Butoject® (KCL 898)

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.



Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Color: colorless

b) Odor amine-like

c) Odor Threshold 1 ppm

d) pH 11.5 at 100 g/l at 20 °C (68 °F)

e) Melting point/freezing point: -136 °C (-213 °F) - (ECHA)

point/freezing point

Initial boiling point 65.5 °C 149.9 °F at 1,003 hPa - lit. and boiling range

g) Flash point -24.8 °C (-12.6 °F) - closed cup - ISO 3679

h) Evaporation rate No data availablei) Flammability (solid, No data available

gas)

j) Upper/lower Upper explosion limit: 8.1 %(V) flammability or Lower explosion limit: 1 %(V)

explosive limits

k) Vapor pressure 189.9 hPa at 20 °C (68 °F) - OECD Test Guideline 104

I) Vapor density No data available

m) Density 0.715 g/cm3 at 25 °C (77 °F) - lit.

Relative density 0.71320 °C - OECD Test Guideline 109

n) Water solubility No data available

o) Partition coefficient: log Pow: 0.89 at 25 °C (77 °F) - - Bioaccumulation is not

n-octanol/water expected.

p) Autoignition 205 °C (401 °F) at 1,020 hPa

temperature

q) Decomposition No data available

temperature

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties none

9.2 Other safety information

No data available



SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! Violent reactions possible with:

Strong oxidizing agents

acids

10.4 Conditions to avoid

Warming.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - 684 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 4.9 mg/l - vapor

(OECD Test Guideline 403) Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit

Result: Causes burns. (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive Remarks: (ECHA)

Respiratory or skin sensitization

Maximization Test - Guinea pig Result: Not a skin sensitizer. (OECD Test Guideline 406) Remarks: No data available

Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: mammalian cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male - Oral - NOAEL (No observed adverse effect level) - 90

mg/kg

Remarks: (ECHA)

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - 22 - 46 mg/l - 96 h

Remarks: (ECHA)

static test NOEC - Leuciscus idus (Golden orfe) - 22 mg/l - 96 h

Remarks: (ECHA)

LC50 - Leuciscus idus (Golden orfe) - > 22 - < 46 mg/l - 96 h

(DIN 38412 T15)

Remarks: (External MSDS)

Toxicity to daphnia static test EC50 - Daphnia magna (Water flea) - 38.4 mg/l - 48 h

Aldrich - 550051

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and other aquatic invertebrates

Remarks: (ECHA)

Toxicity to algae static test NOEC - Desmodesmus subspicatus (green algae) - < 0.39

mg/l - 72 h Remarks: (ECHA)

Toxicity to bacteria static test EC50 - Pseudomonas putida - 48.2 mg/l - 17 h

Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 29 % - Not inherently biodegradable.

(OECD Test Guideline 302B)

Chemical Oxygen 23

232 mg/g

Demand (COD)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Discharge into the environment must be avoided.

Stability in water

Remarks: The product evaporates readily.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 2733 Class: 3 (8) Packing group: II

Proper shipping name: Amine, flammable, corrosive, n.o.s. (N,N-Dimethylisopropylamine)

Reportable Quantity (RQ): Poison Inhalation Hazard: No



IMDG

UN number: 2733 Class: 3 (8) Packing group: II EMS-No: F-E, S-C

Proper shipping name: AMINES, FLAMMABLE, CORROSIVE, N.O.S. (N,N-

Dimethylisopropylamine) Marine pollutant : yes

IATA

UN number: 2733 Class: 3 (8) Packing group: II

Proper shipping name: Amines, flammable, corrosive, n.o.s. (N,N-Dimethylisopropylamine)

SECTION 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

SECTION 16: Other information

Further 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. 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 guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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