

Website:- chemicalbull.com MATERIAL SAFETY DATA SHEET

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

1.1 Product identifiers

Product name : N,N-Dimethylformamide dimethyl acetal

CAS-No. : 4637-24-5

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : ChemicalBull Pvt Ltd

123/124, Panchratna, G.I.D.C Char Rasta, Vapi-396195 Dist, Valsad, Gujarat, INDIA **Website:**- chemicalbull.com

Email: info@chemicalbull.com

1.4 Emergency telephone number

Emergency Phone : +91 9696960250

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation

Flammable liquids

Acute toxicity, Inhalation Serious eye

damage sensitisation

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

#### 2.2 Label elements

**Labelling according Regulation** 

**Pictogram** 

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

Harmful if inhaled. H332

Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and P210

other ignition sources. No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 +

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue P310

rinsing. Immediately call a POISON CENTER/ doctor.

Supplemental Hazard

Statements

none

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms : 1,1-Dimethoxy-N,N-dimethylmethylamine

1,1-Dimethoxytrimethylamine

Formula : C5H13NO2 Molecular weight : 119,16 a/mol : 4637-24-5 CAS-No.

Component	Classification	Concentration
1,1-Dimethoxytrimethylamine		
	Flam. Liq. 2; Acute Tox. 4; Eye Dam. 1; Skin Sens. 1; H225, H332, H318, H317	<= 100 %

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

#### **SECTION 4: First aid measures**

#### **Description of first aid measures** 4.1

# **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 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

Dry powder Dry sand

# Unsuitable extinguishing media

Do NOT use water jet.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx) Combustible.

#### **5.3** Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up ofelectrostatic charge.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Moisture sensitive.

# 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

# **Components with workplace control parameters**

#### 8.2 Exposure controls

# **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# **Personal protective equipment**

# **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm Break through time: 142 min

If used in solution, or mixed with other substances, and under conditions which differ from contact the supplier of the approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific usescenario.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the solemeans of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

b) Odour characteristic odourc) Odour Threshold No data available

d) pH 7

e) Melting point: -85 °C point/freezing point 101 - 102 °C

f) Initial boiling point 102 - 103 °C at 960 hPa - lit. and boiling range

g) Flash point 6 °C

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

j) Upper/lower Upper explosion limit: 17,7 %(V) flammability or Lower explosion limit: 1,3 %(V) explosive limits

k) Vapour pressure 34,5 hPa at 20 °C - OECD Test Guideline 104

I) Vapour density No data available

m) Relative density 0,897 g/cm3 at 25 °C - lit.

n) Water solubility (slow decomposition)

o) Partition coefficient: No data available n-octanol/water

p) Auto-ignition No data available temperature

q) Decomposition No data available

temperature

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

t) Oxidizing properties No data available

# 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Heat, flames and sparks.

# 10.5 Incompatible materials

acids, Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products - No data available

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

LC50 Inhalation - Rat - male and female - 4 h - 12,16 mg/l

(OECD Test Guideline 403) Remarks: (calculated)

#### Skin corrosion/irritation

Skin - Rabbit

Result: slight irritation (OECD Test Guideline 404)

## Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe irritations (OECD Test Guideline 405)

# Respiratory or skin sensitisation

Maximisation Test - Guinea pig

Result: positive

(OECD Test Guideline 406)

# Germ cell mutagenicity

# Carcinogenicity

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

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

# **Reproductive toxicity**

No data available

## Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Acute oral toxicity - Irritation of mucous membranes

Acute inhalation toxicity - Possible damages:, mucosal irritations

#### Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - > 10.000 mg/l - 96

h

(DIN 38412)

Toxicity to daphnia

ınıa

and other aquatic

(DIN 20442)

invertebrates (DIN 38412)

Remarks: The value is given in analogy to the following substances:

static test EC50 - Daphnia magna (Water flea) - > 10.000 mg/l - 48

static test EC50 - Daphnia magna (Water flea) - 13.100 mg/l - 48 h

(OECD Test Guideline 202)

Remarks: The value is given in analogy to the following substances:

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - ca.

22.000 mg/l - 96 h

(OECD Test Guideline 201)

Remarks: The value is given in analogy to the following substances:

#### 12.2 Persistence and degradability

Biodegradability Result: > 70 % - Readily biodegradable.

(OECD Test Guideline 302B)

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

Biological effects:

When discharged properly, no impairments in the function of adapted biological wastewater treatment plants are to be expected.

Discharge into the environment must be avoided.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID: 3271 IMDG: 3271 IATA: 3271

#### 14.2 UN proper shipping name

ADR/RID: ETHERS, N.O.S. (1,1-Dimethoxytrimethylamine) IMDG: ETHERS, N.O.S. (1,1-Dimethoxytrimethylamine) IATA: Ethers, n.o.s. (1,1-Dimethoxytrimethylamine)

# 14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

No data available

#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation.

REACH - Restrictions on the manufacture,

placing on the market and use of certain

dangerous substances, preparations and articles

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

H332 Harmful if inhaled.

#### Relevant changes since previous version

2. Hazards identification

#### **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 ofthe product. ChemicalBull Pvt Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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