# Material Safety Data Sheet

Version 3.3 Revision Date 01/20/2009 Print Date 04/18/2010

#### Product name Dimethylamine

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number 38930

Brand Fluka

Company : Sigma-Aldrich Canada, Ltd. 2149 Winston Park Drive OAKVILLE ON L6H 6J8

CANADA : +19058299500 Telephone : +19058299292 Fax Emergency Phone # : 800-424-9300 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula. : C<sub>2</sub>H<sub>7</sub>N Molecular Weight : 45.08 g/mol CAS-No. EC-No. Index-No. Concentration

## Dimethylamine

124-40-3 204-697-4

612-001-00-9 3. HAZARDS IDENTIFICATION

### Liver Other hazards which do not result in classification

Emergency Overview Target Organs

Lachrymator.

WHMIS Classification Compressed Gas Α В1

D2B HMIS Classification

Health Hazard: 2 Chronic Health Hazard: 4 Flammability: Physical hazards: 3

Potential Health Effects Fluka - 38930

Inhalation

4. FIRST AID MEASURES

General advice

If swallowed

a physician.

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Ingestion Harmful if swallowed.

Compressed Gas

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

Flammable Gas

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.

### 5. FIRE-FIGHTING MEASURES Flammable properties

-6.7 °C (19.9 °F) - closed cup Flash point Ignition temperature 401 °C (754 °F) Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

Use water spray to cool unopened containers.

concentrations. Vapours can accumulate in low areas.

Wipe up with absorbent material (e.g. cloth, fleece).

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

Methods for cleaning up

Personal precautions

Wear self contained breathing apparatus for fire fighting if necessary. Further information

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all

sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive

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

7. HANDLING AND STORAGE Handling

build up of electrostatic charge. Storage Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Contents under pressure.

Dimethylamine

Remarks

Fluka - 38930

Components CAS-No. Value Control parameters

STEL

TWA

15 ppm

compensate for unusual work schedules is not required.

5 ppm 9.2 mg/m3

compensate for unusual work schedules is not required.

27.6 mg/m3

124-40-3

Components with workplace control parameters

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit is based on irritation effects and its adjustment to

Occupational exposure limit is based on irritation effects and its adjustment to

Update

2004-04-30

2004-04-30

2004-08-01

#### TWA 5 ppm

	Eye protection							
	Hand protection Handle with gloves.							
	Respiratory protection Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).							
٠	Personal protec	tive equipmen	ıt					
ı							ı	
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			TWA	5 ppm 9 mg/m3	2007-01-04	Canada. Act Respecting Occupational Health and Safety [R.S.Q., c.2.1], Regulation respecting Occupational Health and Safety (O.C.885-2001), Division XV, Sections 130- 14		
			STEL	15 ppm	2005-02-03	Canada. Occupational Health and Safety Act [R.S.O. 1990, c.1], Industrial Establishments (R.R.O. 1990, Reg 851),139		
			TWA	5 ррт	2005-02-03	Canada. Occupational Health and Safety Act [R.S.O. 1990, c.1], Industrial Establishments (R.R.O. 1990, Reg 851),139		
			STEL	15 ppm	2004-08-01	Canada. Worker's Compensation Act, Occupational Health and Safety Regulations (BC Reg 296/97 as amended), 7.2 [B.C. Reg. 382/2004, s.1]		
						Reg 296/97 as amended), 7.2 [B.C. Reg. 382/2004, s.1]		

Choose body protection according to the amount and concentration of the dangerous substance at the work

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

#### Ignition temperature 401 °C (754 °F) Lower explosion limit 2.8 %(V) Upper explosion limit 14.4 %(V)

Vapour pressure

Water solubility

Relative vapour

10. STABILITY AND REACTIVITY

Density

density

Storage stability

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Safety glasses

Hygiene measures

place.

Colour

Safety data

Melting point

Boiling point

Flash point

рΗ

of workday.

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Compressed gas

no data available

-93 °C (-135 °F) 7 °C (45 °F)

-6.7 °C (19.9 °F) - closed cup

0.68 g/mL at 20 °C (68 °F)

no data available

- (Air = 1.0)

4,596 hPa (3,447 mmHg) at 52 °C (126 °F) 1,703 hPa (1,277 mmHg) at 20 °C (68 °F)

colourless

Conditions to avoid Heat, flames and sparks. Materials to avoid Strong oxidizing agents

Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION Acute toxicity

Hazardous decomposition products

LD50 Oral - rat - 698 mg/kg

stomach.

Genotoxicity in vitro - Hamster - ovary Sister chromatid exchange Genotoxicity in vitro - Hamster - ovary Cytogenetic analysis

Causes eye irritation.

Harmful if swallowed.

Liver.

Elimination information (persistence and degradability)

Genotoxicity in vivo - rat - Inhalation

Cytogenetic analysis

Target Organs

Additional Information RTECS: IP8750000

12. ECOLOGICAL INFORMATION

Inhalation

Skin

Eyes Ingestion

Potential Health Effects

Ecotoxicity effects Toxicity to fish

no data available

no data available

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13. DISPOSAL CONSIDERATIONS

Further information on ecology

UN-Number: 1032 Class: 2.1 Proper shipping name: Dimethylamine, anhydrous Marine pollutant: No Poison Inhalation Hazard: No

UN-Number: 1032 Class: 2.1

UN-Number: 1032 Class: 2.1

Marine pollutant: No

DOT (US)

IATA

### IATA Passenger: Not permitted for transport 15. REGULATORY INFORMATION DSL Status

WHMIS Classification

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Α

B1

D2B

16. OTHER INFORMATION Further information Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

All components of this product are on the Canadian DSL list.

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 Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Irritation and corrosion no data available Sensitisation no data available Chronic exposure This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. 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.

May be harmful if inhaled. Causes respiratory tract irritation.

May be harmful if absorbed through skin. Causes skin irritation.

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

Remarks: Behavioral:Excitement, Behavioral:Muscle weakness, Gastrointestinal:Ulceration or bleeding from

LC50 - Oncorhynchus mykiss (rainbow trout) - 17 mg/l - 96 h Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 46 mg/l - 96 h and other aquatic invertebrates. Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata - 6.2 mg/l - 96 h

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Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Proper shipping name: DIMETHYLAMINE, ANHYDROUS

Proper shipping name: Dimethylamine, anhydrous

Compressed Gas

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION

Moderate eye irritant

EMS-No: F-D, S-U

Compressed Gas Flammable Gas Moderate skin irritant Moderate respiratory irritant

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

Canada, Occupational

Canada. Occupational

Canada, Worker's

Compensation Act, Occupational Health and Safety Regulations (BC

Health and Safety Code

Health and Safety Code

Basis

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Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the Sigma-Aldrich Corporation Page 2 of 5 www.sigma-aldrich.com