

# IC-DMA-M Dimethylamine (1000µg/mL in H2O)

**High-Purity Standards** 

Chemwatch Hazard Alert Code: 0

Catalogue number: IC-DMA-M Version No: 1.1 Issue Date: 08/25/2016 Print Date: 08/25/2016

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

S GHS USA FN

#### **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	IC-DMA-M Dimethylamine (1000μg/mL in H2O)
Synonyms	1000µg/mL Dimethylamine in H2O
Other means of identification	IC-DMA-M

#### Recommended use of the chemical and restrictions on use

ctions.
cti

# Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

# Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

# **SECTION 2 HAZARD(S) IDENTIFICATION**

# Classification of the substance or mixture

Classification	Not Applicable

## Label elements

GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

#### Hazard statement(s)

Not Applicable

## Hazard(s) not otherwise specified

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

## Precautionary statement(s) Response

Not Applicable

# Precautionary statement(s) Storage

Not Applicable

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#### Precautionary statement(s) Disposal

Not Applicable

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
124-40-3	0.1	dimethylamine
7732-18-5	balance	<u>water</u>

#### **SECTION 4 FIRST-AID MEASURES**

#### Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  ► Immediately remove all contaminated clothing, including footwear.  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

#### Most important symptoms and effects, both acute and delayed

See Section 11

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 FIRE-FIGHTING MEASURES**

Fire Incompatibility

## Extinguishing media

▶ There is no restriction on the type of extinguisher which may be used.

None known.

Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Special protective equipment and precautions for fire-fighters				
Fire Fighting	► Alert Fire Brigade and tell them location and nature of hazard.			
Fire/Explosion Hazard	► Non combustible.  May emit corrosive fumes.			

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	► Clean up all spills immediately.
Major Spills	Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

## Precautions for safe handling

Safe handling

► Avoid all personal contact, including inhalation.

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Other information

• DO NOT allow clothing wet with material to stay in contact with skin

# Conditions for safe storage, including any incompatibilities

Suitable container	▶ Polyethylene or polypropylene container.
Storage incompatibility	None known

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

## **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	dimethylamine	Dimethylamine	18 mg/m3 / 10 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	dimethylamine	Dimethylamine	5 ppm	15 ppm	Not Available	TLV® Basis: URT & GI irr
US NIOSH Recommended Exposure Limits (RELs)	dimethylamine	Dimethylamine (anhydrous), N-Methylmethanamine	18 mg/m3 / 10 ppm	Not Available	Not Available	Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
dimethylamine	Dimethylamine Not Available		Not Available	Not Available	
Ingredient	Original IDLH		Revised IDLH		
dimethylamine	2,000 ppm		500 ppm		
water	Not Available		Not Available		

#### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.	
Personal protection		
Eye and face protection	► Safety glasses with side shields.	
Skin protection	See Hand protection below	
Hands/feet protection	Wear chemical protective gloves, e.g. PVC.     The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.	
Body protection	See Other protection below	
Other protection	► Overalls.	
Thermal hazards	Not Available	

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance	colorless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

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Not Available	Volatile Component (%vol)	Not Available	Lower Explosive Limit (%)
Not Available	Gas group	Not Available	Vapour pressure (kPa)
Not Available	pH as a solution (1%)	Miscible	Solubility in water (g/L)
Not Available	VOC q/L	Not Available	Vapour density (Air = 1)

#### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	► Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

water

Legend:

0

Mutagenicity

Information	on	toxicolo	aical	effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion".		
Skin Contact	Skin Contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		

IC-DMA-M Dimethylamine (1000µg/mL in H2O)	TOXICITY  Not Available	IRRITATION  Not Available
dimethylamine	Inhalation (mouse) LC50: 0.07 mg/L/2hr <sup>[2]</sup> Inhalation (mouse) LC50: 4725 ppm/2hr <sup>[2]</sup> Inhalation (rat) LC50: 3 mg/L/2hr <sup>[2]</sup> Inhalation (rat) LC50: 4540 ppm/6hr <sup>[2]</sup> Oral (rat) LD50: 698 mg/kg <sup>[2]</sup>	IRRITATION  Eye (rabbit): 50 mg/5m
	TOXICITY	IRRITATION

	TOXICITY	IRRITATION
r	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

#### Asthma-like symptoms may continue for months or even years after exposure to the material ceases. **DIMETHYLAMINE** Excitement, muscle weakness, stomach ulceration, effects on olfaction and eyes, dyspnea, alterations in classic conditioning, changes in liver weight, decreases in cellular immune response, changes in phosphatase activity and hepatic microsomal mixed oxidases, changes in serum composition, changes in urine composition recorded. WATER No significant acute toxicological data identified in literature search. **Acute Toxicity** Carcinogenicity 0 0 0 Skin Irritation/Corrosion Reproductivity Serious Eye 0 0 STOT - Single Exposure Damage/Irritation Respiratory or Skin 0 STOT - Repeated Exposure 0 sensitisation

**Aspiration Hazard** Legend:

- 🗶 Data available but does not fill the criteria for classification
- Data required to make classification available
- O Data Not Available to make classification

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#### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
dimethylamine	LC50	96	Fish	17mg/L	2
dimethylamine	EC50	48	Crustacea	50mg/L	2
dimethylamine	EC50	96	Algae or other aquatic plants	6.2mg/L	4
dimethylamine	BCF	7.5	Algae or other aquatic plants	0.4mg/L	4
dimethylamine	EC0	96	Algae or other aquatic plants	=2mg/L	1
dimethylamine	NOEC	1200	Fish	0.6mg/L	2
water	LC50	96	Fish	897.520mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	EC50	384	Crustacea	199.179mg/L	3
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -				

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethylamine	LOW (Half-life = 14 days)	LOW (Half-life = 0.38 days)
water	LOW	LOW

#### Bioaccumulative potential

Ingredient	Bioaccumulation
dimethylamine	LOW (BCF = 0.3)
water	LOW (LogKOW = -1.38)

#### Mobility in soil

Ingredient	Mobility
dimethylamine	LOW (KOC = 13.4)
water	LOW (KOC = 14.3)

## **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

► Recycle wherever possible.

# **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Dimethylamine solution (45% or less) Dimethylamine solution (greater than 45% but not greater than 55%) Dimethylamine solution (greater than 55% but not greater than 65%)	Y; Y; Y	3 2 2

# **SECTION 15 REGULATORY INFORMATION**

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

 $\parallel$  DIMETHYLAMINE(124-40-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft
US - Alaska Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants
US - Hawaii Air Contaminant Limits
US - Idaho - Limits for Air Contaminants
US - Michigan Exposure Limits for Air Contaminants
US - Minnesota Permissible Exposure Limits (PELs)
US - Oregon Permissible Exposure Limits (Z-1)
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

	US - Washington Permissible exposure limits of air contaminants
	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
	US ACGIH Threshold Limit Values (TLV)
	US ACGIH Threshold Limit Values (TLV) - Carcinogens
	US EPCRA Section 313 Chemical List
	US NIOSH Recommended Exposure Limits (RELs)
	US OSHA Permissible Exposure Levels (PELs) - Table Z1
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
	US OSHA Permissible Exposure Levels (PELs) - Table Z1

US TSCA New Chemical Exposure Limits (NCEL)

US TSCA Section 5(a)(2) - Significant New Use Rules (SNURs)

#### WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### **Federal Regulations**

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	No
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

#### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Dimethylamine	1000	454

#### **State Regulations**

### US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (dimethylamine; water)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (water)
Korea - KECI	Υ
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory  N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC – STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value Catalogue number: **IC-DMA-M**Version No: **1.1** 

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BCF: BioConcentration Factors BEI: Biological Exposure Index

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