

according to Regulation (EC) No. 1907/2006

Creation Date 11-Sep-2014 Revision Date 07-Dec-2024 Revision Number 6

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Dimethylamine, 2M in THF

Cat No.: H27665

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

**Swiss distributor -** Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

Poison Centre - Emergency information services

Ireland: National Poisons Information Centre (NPIC) -

01 809 2166 (8am-10pm, 7 days a week)

Malta: +356 2395 2000 Cyprus: +357 2240 5611

# Section 2: HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

#### Dimethylamine, 2M in THF

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### **Physical hazards**

Flammable liquids Category 2 (H225)

#### **Health hazards**

Acute oral toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Carcinogenicity

Carcinogenicity

Specific target organ toxicity - (single exposure)

Category 2 (H315)

Category 1 (H318)

Category 2 (H351)

Category 3 (H335) (H336)

#### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



#### Signal Word

Danger

### **Hazard Statements**

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

EUH019 - May form explosive peroxides

# **Precautionary Statements**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### 2.3. Other hazards

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

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

#### 3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Tetrahydrofuran	109-99-9	203-726-8	89	Flam. Liq. 2 (H225) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335)
				STOT SE 3 (H336) Carc. 2 (H351) (EUH019)
Dimethylamine	124-40-3	EEC No. 204-697-4	11	Flam. Gas 1 (H220) Press. Gas Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335)

Component	Specific concentration limits	M-Factor	Component notes
	(SCL's)		
Tetrahydrofuran	Acute Tox. 4 :: C>82.5%	-	-
	Eye Irrit. 2 :: C>=25%		
	STOT SE 3 :: C>=25%		
Dimethylamine	Eye Dam. 1 (H318) :: C>=5%	-	-
	Eye Irrit. 2 (H319) ::		
	0.5%<=C<5%		
	Skin Irrit. 2 (H315) :: C>=5%		
	STOT SE 3 (H335) :: C>=5%		

Full text of Hazard Statements: see section 16

# **Section 4: First aid measures**

#### 4.1. Description of first aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Inhalation** If not breathing, give artificial respiration. Remove to fresh air. Get medical attention if

symptoms occur.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

None reasonably foreseeable. Causes severe eye damage. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Inhalation of high vapor concentrations may

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cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression

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

**Notes to Physician** 

Treat symptomatically. Symptoms may be delayed.

# **Section 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

# Extinguishing media which must not be used for safety reasons

No information available.

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

### 6.2. Environmental precautions

Should not be released into the environment.

## 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

# Section 7: Handling and storage

#### 7.1. Precautions for safe handling

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Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. If peroxide formation is suspected, do not open or move container. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

# **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Shelf life 12 months. May form explosive peroxides on prolonged storage. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Keep away from heat, sparks and flame.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Class 3

**Switzerland - Storage of hazardous substances** 

Storage class - SC 3 https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

#### 7.3. Specific end use(s)

Use in laboratories

# **Section 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### **Exposure limits**

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

Component	European Union	The United Kingdom	France	Belgium	Spain
Tetrahydrofuran	TWA: 50 ppm (8h)	STEL: 100 ppm 15 min	TWA / VME: 50 ppm (8	TWA: 50 ppm 8 uren	STEL / VLA-EC: 100
	TWA: 150 mg/m <sup>3</sup> (8h)	STEL: 300 mg/m <sup>3</sup> 15	heures). restrictive limit	TWA: 150 mg/m <sup>3</sup> 8 uren	ppm (15 minutos).
	STEL: 100 ppm (15min)	min	TWA / VME: 150 mg/m <sup>3</sup>	STEL: 100 ppm 15	STEL / VLA-EC: 300
	STEL: 300 mg/m <sup>3</sup>	TWA: 50 ppm 8 hr	(8 heures). restrictive	minuten	mg/m³ (15 minutos).
	(15min)	TWA: 150 mg/m <sup>3</sup> 8 hr	limit	STEL: 300 mg/m <sup>3</sup> 15	TWA / VLA-ED: 50 ppm
	Skin	Skin	STEL / VLCT: 100 ppm.	minuten	(8 horas)
			restrictive limit	Huid	TWA / VLA-ED: 150
			STEL / VLCT: 300		mg/m³ (8 horas)
			mg/m <sup>3</sup> . restrictive limit		Piel
			Peau		
Dimethylamine	TWA: 2 ppm (8h)	STEL: 6 ppm 15 min	TWA / VME: 1 ppm (8	TWA: 2 ppm 8 uren	STEL / VLA-EC: 5 ppm
	TWA: 3.8 mg/m <sup>3</sup> (8h)	STEL: 11 mg/m <sup>3</sup> 15 min	heures). restrictive limit	TWA: 3.8 mg/m <sup>3</sup> 8 uren	(15 minutos).
	STEL: 5 ppm (15min)	TWA: 2 ppm 8 hr	TWA / VME: 1.9 mg/m <sup>3</sup>	STEL: 5 ppm 15	STEL / VLA-EC: 9.4
	STEL: 9.4 mg/m <sup>3</sup>	TWA: 3.8 mg/m <sup>3</sup> 8 hr	(8 heures). restrictive	minuten	mg/m³ (15 minutos).
	(15min)		limit	STEL: 9.4 mg/m <sup>3</sup> 15	TWA / VLA-ED: 2 ppm
			STEL / VLCT: 2 ppm.	minuten	(8 horas)
			restrictive limit		TWA / VLA-ED: 3.8
			STEL / VLCT: 3.8		mg/m³ (8 horas)
			mg/m <sup>3</sup> . restrictive limit		

Component	Italy	Germany	Portugal	The Netherlands	Finland

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Tetrahydrofuran	TWA: 50 ppm 8 ore. Time Weighted Average TWA: 150 mg/m³ 8 ore. Time Weighted Average STEL: 100 ppm 15 minuti. Short-term STEL: 300 mg/m³ 15 minuti. Short-term Pelle	exposure factor 2	STEL: 100 ppm 15 minutos STEL: 300 mg/m³ 15 minutos TWA: 50 ppm 8 horas TWA: 150 mg/m³ 8 horas Pele	huid STEL: 200 ppm 15 minuten STEL: 600 mg/m³ 15 minuten TWA: 100 ppm 8 uren TWA: 300 mg/m³ 8 uren	TWA: 50 ppm 8 tunteina TWA: 150 mg/m³ 8 tunteina STEL: 100 ppm 15 minuutteina STEL: 300 mg/m³ 15 minuutteina Iho
Dimethylamine	TWA: 2 ppm 8 ore. Time Weighted Average TWA: 3.8 mg/m³ 8 ore. Time Weighted Average STEL: 5 ppm 15 minuti. Short-term STEL: 9.4 mg/m³ 15 minuti. Short-term	TWA: 2 ppm (8 Stunden). AGW - exposure factor 2	STEL: 5 ppm 15 minutos STEL: 9.4 mg/m³ 15 minutos TWA: 2 ppm 8 horas TWA: 3.8 mg/m³ 8 horas	TWA: 0.95 ppm 8 uren TWA: 1.8 mg/m³ 8 uren	TWA: 2 ppm 8 tunteina TWA: 3.7 mg/m³ 8 tunteina STEL: 5 ppm 15 minuutteina STEL: 9.4 mg/m³ 15 minuutteina
		Dammanlı	Construenten d	Dalamal	

Component	Austria	Denmark	Switzerland	Poland	Norway
Tetrahydrofuran	Haut	TWA: 50 ppm 8 timer	Haut/Peau	STEL: 300 mg/m <sup>3</sup> 15	TWA: 50 ppm 8 timer
	MAK-KZGW: 100 ppm	TWA: 150 mg/m <sup>3</sup> 8 timer	STEL: 100 ppm 15	minutach	TWA: 150 mg/m <sup>3</sup> 8 timer
	15 Minuten	STEL: 300 mg/m <sup>3</sup> 15	Minuten	TWA: 150 mg/m <sup>3</sup> 8	STEL: 75 ppm 15
	MAK-KZGW: 300 mg/m <sup>3</sup>	minutter	STEL: 300 mg/m <sup>3</sup> 15	godzinach	minutter. value
	15 Minuten	STEL: 100 ppm 15	Minuten		calculated
	MAK-TMW: 50 ppm 8	minutter	TWA: 50 ppm 8		STEL: 187.5 mg/m <sup>3</sup> 15
	Stunden	Hud	Stunden		minutter. value
	MAK-TMW: 150 mg/m <sup>3</sup>		TWA: 150 mg/m <sup>3</sup> 8		calculated
	8 Stunden		Stunden		Hud
Dimethylamine	MAK-KZGW: 2 ppm 15	TWA: 2 ppm 8 timer	STEL: 4 ppm 15	STEL: 9 mg/m <sup>3</sup> 15	TWA: 2 ppm 8 timer
	Minuten	TWA: 3.8 mg/m <sup>3</sup> 8 timer	Minuten	minutach	TWA: 4 mg/m <sup>3</sup> 8 timer
	MAK-KZGW: 3.8 mg/m <sup>3</sup>	STEL: 9.4 mg/m <sup>3</sup> 15	STEL: 8 mg/m <sup>3</sup> 15	TWA: 3 mg/m <sup>3</sup> 8	STEL: 4 ppm 15
	15 Minuten	minutter	Minuten	godzinach	minutter. value
	MAK-TMW: 2 ppm 8	STEL: 5 ppm 15	TWA: 2 ppm 8 Stunden		calculated
	Stunden	minutter	TWA: 4 mg/m <sup>3</sup> 8		STEL: 8 mg/m <sup>3</sup> 15
	MAK-TMW: 3.8 mg/m <sup>3</sup> 8		Stunden		minutter. value
	Stunden				calculated
	Ceiling: 2 ppm				
	Ceiling: 3.8 mg/m <sup>3</sup>				

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Tetrahydrofuran	TWA: 50.0 ppm	kože	TWA: 50 ppm 8 hr.	Skin-potential for	TWA: 150 mg/m <sup>3</sup> 8
	TWA: 150.0 mg/m <sup>3</sup>	TWA-GVI: 50 ppm 8	TWA: 150 mg/m <sup>3</sup> 8 hr.	cutaneous absorption	hodinách.
	STEL: 100 ppm	satima.	STEL: 100 ppm 15 min	STEL: 100 ppm	Potential for cutaneous
	STEL: 300.0 mg/m <sup>3</sup>	TWA-GVI: 150 mg/m <sup>3</sup> 8	STEL: 300 mg/m <sup>3</sup> 15	STEL: 300 mg/m <sup>3</sup>	absorption
	Skin notation	satima.	min	TWA: 50 ppm	Ceiling: 300 mg/m <sup>3</sup>
		STEL-KGVI: 100 ppm	Skin	TWA: 150 mg/m <sup>3</sup>	
		15 minutama.			
		STEL-KGVI: 300 mg/m <sup>3</sup>			
		15 minutama.			

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Dimethylamine	TWA: 2 ppm	kože	TWA: 2 ppm 8 hr.	STEL: 5.0 ppm	TWA: 3.8 mg/m <sup>3</sup> 8
,	TWA: 3.8 mg/m <sup>3</sup>	TWA-GVI: 2 ppm 8	TWA: 3.8 mg/m <sup>3</sup> 8 hr.	STEL: 9.4 mg/m <sup>3</sup>	hodinách.
	STEL: 5 ppm	satima.	STEL: 5 ppm 15 min	TWA: 2 ppm	Potential for cutaneous
	STEL: 9.4 mg/m <sup>3</sup>	TWA-GVI: 3.8 mg/m <sup>3</sup> 8	STEL: 9.4 mg/m <sup>3</sup> 15 min	TWA: 3.8 mg/m <sup>3</sup>	absorption
		satima.			Ceiling: 9 mg/m <sup>3</sup>
		STEL-KGVI: 5 ppm 15			
		minutama.			
		STEL-KGVI: 9.4 mg/m <sup>3</sup>			
		15 minutama.			
Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Component Tetrahydrofuran	<b>Estonia</b> Nahk	Gibraltar Skin notation	Greece STEL: 250 ppm	Hungary STEL: 300 mg/m³ 15	Iceland STEL: 100 ppm
	Nahk	Skin notation	STEL: 250 ppm	STEL: 300 mg/m <sup>3</sup> 15	STEL: 100 ppm
	Nahk TWA: 50 ppm 8	Skin notation TWA: 50 ppm 8 hr	STEL: 250 ppm STEL: 735 mg/m³	STEL: 300 mg/m³ 15 percekben. CK	STEL: 100 ppm STEL: 300 mg/m <sup>3</sup>
	Nahk TWA: 50 ppm 8 tundides.	Skin notation TWA: 50 ppm 8 hr TWA: 150 mg/m³ 8 hr	STEL: 250 ppm STEL: 735 mg/m³ TWA: 200 ppm	STEL: 300 mg/m³ 15 percekben. CK STEL: 100 ppm 15 percekben. CK TWA: 150 mg/m³ 8	STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> TWA: 50 ppm 8 klukkustundum. TWA: 150 mg/m <sup>3</sup> 8
	Nahk TWA: 50 ppm 8 tundides. TWA: 150 mg/m³ 8	Skin notation TWA: 50 ppm 8 hr TWA: 150 mg/m <sup>3</sup> 8 hr STEL: 100 ppm 15 min	STEL: 250 ppm STEL: 735 mg/m³ TWA: 200 ppm	STEL: 300 mg/m³ 15 percekben. CK STEL: 100 ppm 15 percekben. CK	STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> TWA: 50 ppm 8 klukkustundum.
	Nahk TWA: 50 ppm 8 tundides. TWA: 150 mg/m³ 8 tundides.	Skin notation TWA: 50 ppm 8 hr TWA: 150 mg/m³ 8 hr STEL: 100 ppm 15 min STEL: 300 mg/m³ 15	STEL: 250 ppm STEL: 735 mg/m³ TWA: 200 ppm	STEL: 300 mg/m³ 15 percekben. CK STEL: 100 ppm 15 percekben. CK TWA: 150 mg/m³ 8	STEL: 100 ppm STEL: 300 mg/m³ TWA: 50 ppm 8 klukkustundum. TWA: 150 mg/m³ 8 klukkustundum.

	TWA: 150 mg/m³ 8 tundides. STEL: 100 ppm 15 minutites. STEL: 300 mg/m³ 15 minutites.	STEL: 100 ppm 15 min STEL: 300 mg/m <sup>3</sup> 15 min	TWA: 590 mg/m <sup>3</sup>	percekben. CK TWA: 150 mg/m³ 8 órában. AK TWA: 50 ppm 8 órában. AK lehetséges borön keresztüli felszívódás	klukkustundum. TWA: 150 mg/m³ 8 klukkustundum. Skin notation
Dimethylamine	TWA: 2 ppm 8 tundides. TWA: 3.8 mg/m³ 8 tundides. STEL: 5 ppm 15 minutites. STEL: 9.4 mg/m³ 15 minutites.	TWA: 2 ppm 8 hr TWA: 3.8 mg/m <sup>3</sup> 8 hr STEL: 5 ppm 15 min STEL: 9.4 mg/m <sup>3</sup> 15 min	STEL: 15 ppm STEL: 27 mg/m³ TWA: 10 ppm TWA: 18 mg/m³	STEL: 5 ppm 15 percekben. CK STEL: 9.4 mg/m³ 15 percekben. CK TWA: 2 ppm 8 órában. AK TWA: 3.8 mg/m³ 8 órában. AK lehetséges borön keresztüli felszívódás	STEL: 5 ppm STEL: 9.4 mg/m³ TWA: 2 ppm 8 klukkustundum. TWA: 3.8 mg/m³ 8 klukkustundum.

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Tetrahydrofuran	skin - potential for	TWA: 50 ppm IPRD	Possibility of significant	possibility of significant	Skin notation
	cutaneous exposure	TWA: 150 mg/m <sup>3</sup> IPRD	uptake through the skin	uptake through the skin	TWA: 50 ppm 8 ore
	STEL: 100 ppm	Oda	TWA: 50 ppm 8	TWA: 50 ppm	TWA: 150 mg/m <sup>3</sup> 8 ore
	STEL: 300 mg/m <sup>3</sup>	STEL: 100 ppm	Stunden	TWA: 150 mg/m <sup>3</sup>	STEL: 100 ppm 15
	TWA: 50 ppm	STEL: 300 mg/m <sup>3</sup>	TWA: 150 mg/m <sup>3</sup> 8	STEL: 100 ppm 15	minute
	TWA: 150 mg/m <sup>3</sup>	_	Stunden	minuti	STEL: 300 mg/m <sup>3</sup> 15
	_		STEL: 100 ppm 15	STEL: 300 mg/m <sup>3</sup> 15	minute
			Minuten	minuti	
			STEL: 300 mg/m <sup>3</sup> 15		
			Minuten		
Dimethylamine	STEL: 5 ppm	TWA: 2 ppm IPRD	TWA: 2 ppm 8 Stunden	TWA: 2 ppm	TWA: 2 ppm 8 ore
	STEL: 9.4 mg/m <sup>3</sup>	TWA: 3.8 mg/m <sup>3</sup> IPRD	TWA: 3.8 mg/m <sup>3</sup> 8	TWA: 3.8 mg/m <sup>3</sup>	TWA: 3.8 mg/m <sup>3</sup> 8 ore
	TWA: 2 ppm	STEL: 5 ppm	Stunden	STEL: 5 ppm 15 minuti	STEL: 9.4 mg/m <sup>3</sup> 15
	TWA: 3.8 mg/m <sup>3</sup>	STEL: 9.4 mg/m <sup>3</sup>	STEL: 5 ppm 15	STEL: 9.4 mg/m <sup>3</sup> 15	minute
	_	_	Minuten	minuti	STEL: 5 ppm 15 minute
			STEL: 9.4 mg/m <sup>3</sup> 15		
			Minuten		

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Tetrahydrofuran	MAC: 100 mg/m <sup>3</sup>	Ceiling: 300 mg/m <sup>3</sup>	TWA: 50 ppm 8 urah	Binding STEL: 100 ppm	Deri
	_	Potential for cutaneous	TWA: 150 mg/m <sup>3</sup> 8 urah	15 minuter	TWA: 50 ppm 8 saat
		absorption	Koža	Binding STEL: 300	TWA: 150 mg/m <sup>3</sup> 8 saat
		TWA: 50 ppm	STEL: 100 ppm 15	mg/m <sup>3</sup> 15 minuter	STEL: 100 ppm 15
		TWA: 150 mg/m <sup>3</sup>	minutah	TLV: 50 ppm 8 timmar.	dakika
			STEL: 300 mg/m <sup>3</sup> 15	NGV	STEL: 300 mg/m <sup>3</sup> 15
			minutah	TLV: 150 mg/m <sup>3</sup> 8	dakika
				timmar. NGV	
Dimethylamine	Skin notation	Ceiling: 9.4 mg/m <sup>3</sup>	TWA: 2 ppm 8 urah	Binding STEL: 5 ppm 15	TWA: 2 ppm 8 saat
	MAC: 1 mg/m <sup>3</sup>	TWA: 2 ppm	TWA: 3.8 mg/m <sup>3</sup> 8 urah	minuter	TWA: 3.8 mg/m <sup>3</sup> 8 saat
		TWA: 3.8 mg/m <sup>3</sup>	STEL: 5 ppm 15	Binding STEL: 9 mg/m <sup>3</sup>	STEL: 5 ppm 15 dakika
			minutah	15 minuter	STEL: 9.4 mg/m <sup>3</sup> 15
			STEL: 9.4 mg/m <sup>3</sup> 15	TLV: 2 ppm 8 timmar.	dakika
			minutah	NGV	
				TLV: 3.5 mg/m <sup>3</sup> 8	
				timmar. NGV	

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# **Biological limit values**

List source(s):

Component	European Union	United Kingdom	France	Spain	Germany
Tetrahydrofuran				Tetrahydrofuran: 2 mg/L	Tetrahydrofuran: 2 mg/L
				urine end of shift	urine (end of shift)

	Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Γ	Tetrahydrofuran			Tetrahydrofuran: 2 mg/L		
	•			urine end of exposure or		
				work shift		

# **Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

# Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local	Acute effects	Chronic effects local	Chronic effects
	(Dermal)	systemic (Dermal)	(Dermal)	systemic (Dermal)
Tetrahydrofuran				DNEL = 12.6mg/kg
109-99-9 (89)				bw/day
Dimethylamine		DNEL = 1.95mg/kg		DNEL = 0.0874mg/kg
124-40-3 ( 11 )		bw/day		bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Tetrahydrofuran 109-99-9 ( 89 )	DNEL = 300mg/m <sup>3</sup>	DNEL = 96mg/m <sup>3</sup>	DNEL = 150mg/m <sup>3</sup>	DNEL = 72.4mg/m <sup>3</sup>
Dimethylamine 124-40-3 ( 11 )	DNEL = 12.9mg/m <sup>3</sup>	DNEL = 9.4mg/m <sup>3</sup>		DNEL = 3.8mg/m <sup>3</sup>

# **Predicted No Effect Concentration (PNEC)**

See values below.

	Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
L			sediment		sewage treatment	
Γ	Tetrahydrofuran	PNEC = 4.32mg/L	PNEC = 23.3 mg/kg	PNEC = 21.6mg/L	PNEC = 4.6mg/L	PNEC = 2.13mg/kg
L	109-99-9 ( 89 )		sediment dw			soil dw
	Dimethylamine	PNEC = 0.06mg/L	PNEC = 3.26 mg/kg	PNEC = 0.06mg/L	PNEC = 100mg/L	PNEC =
	124-40-3 ( 11 )		sediment dw			0.0385mg/kg soil
L						dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Tetrahydrofuran 109-99-9 (89)	PNEC = 0.432mg/L	PNEC = 2.33mg/kg sediment dw		PNEC = 67mg/kg food	
Dimethylamine 124-40-3 ( 11 )	PNEC = 0.006mg/L	PNEC = 0.33mg/kg sediment dw			

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#### 8.2. Exposure controls

### **Engineering Measures**

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Butyl rubber	See manufacturers	-	EN 374	(minimum requirement)
Nitrile rubber	recommendations			
Viton (R)				
Neoprene gloves				

**Skin and body protection** Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type:** low boiling organic solvent Type AX Brown conforming to EN371 or Organic gases and vapours filter Type A Brown conforming to EN14387

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** No information available.

# Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance Colorless

Odor No information available
Odor Threshold No data available
Melting Point/Range No data available
Softening Point No data available
Boiling Point/Range No information available

Flammability (liquid) Highly flammable On basis of test data

Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

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Flash Point -36 °C / -32.8 °F Method - No information available

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availablepHNo information availableViscosityNo data available

Water Solubility Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Componentlog PowTetrahydrofuran0.45Dimethylamine-0.274

Vapor Pressure No data available

Density / Specific Gravity 0.850

Bulk DensityNot applicableLiquidVapor DensityNo information available(Air = 1.0)

Particle characteristics Not applicable (liquid)

9.2. Other information

**Explosive Properties** Vapors may form explosive mixtures with air

# Section 10: Stability and reactivity

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Thermal

decomposition can lead to release of irritating gases and vapors.

# **Section 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Product Information**

(a) acute toxicity;

Oral Category 4

**Dermal**Based on available data, the classification criteria are not met **Inhalation**Based on available data, the classification criteria are not met

Dimethylamine, 2M in THF

## Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrahydrofuran	1650 mg/kg ( Rat )	> 2000 mg/kg (Rabbit)	180 mg/L (Rat) 1 h
			53.9 mg/L (Rat) 4 h
Dimethylamine	LD50 = 698 mg/kg (Rat)	LD50 = 3900 mg/kg (Rat)	LC50 = 7340 ppm (Rat) 20 min

(b) skin corrosion/irritation; Category 2

Category 1 (c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

No data available Respiratory No data available Skin

Component	Test method	Test species	Study result
Tetrahydrofuran	Local Lymph Node Assay	mouse	non-sensitising
109-99-9 ( 89 )	OECD Test Guideline 429		

(e) germ cell mutagenicity; No data available

Component	Test method	Test species	Study result
Tetrahydrofuran	OECD Test Guideline 476	in vivo	negative
109-99-9 ( 89 )	Gene cell mutation	Mammalian	_
	OECD Test Guideline 473		
	Chromosomal aberration assay	in vitro	negative
		Mammalian	

(f) carcinogenicity; Category 2

> The table below indicates whether each agency has listed any ingredient as a carcinogen Limited evidence of a carcinogenic effect

ΕU UK IARC Component Germany Tetrahydrofuran Group 2B

(a) reproductive toxicity: No data available

(g) represente textory,	110 data available		
Component	Test method	Test species / Duration	Study result
Tetrahydrofuran	OECD Test Guideline 416	Rat	NOAEL = 3,000 ppm
100-00-0 ( 80 )		2 Generation	

(h) STOT-single exposure; Category 3

Results / Target organs Respiratory system, Central nervous system (CNS).

(i) STOT-repeated exposure; No data available

None known. **Target Organs** 

(j) aspiration hazard; No data available

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness,

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nausea and vomiting. Causes central nervous system depression.

#### 11.2. Information on other hazards

#### **Endocrine Disrupting Properties**

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

# **Section 12: Ecological information**

# 12.1. Toxicity Ecotoxicity effects

This product contains the following substance(s) which are hazardous for the environment. .

Component	Freshwater Fish	Water Flea	Freshwater Algae
Tetrahydrofuran	2160 mg/l LC50 = 96 h Pimephales promelas Leuciscus idus: LC50: 2820 mg/L/48h	EC50 48 h 3485 mg/l EC50: >10000 mg/L/24h	
Dimethylamine	LC50: = 396 mg/L, 96h static (Brachydanio rerio) LC50: 127 - 349 mg/L, 96h semi-static (Poecilia reticulata) LC50: = 210 mg/L, 96h static (Poecilia reticulata) LC50: = 120 mg/L, 96h static (Oncorhynchus mykiss) LC50: 111 - 125 mg/L, 96h (Oncorhynchus mykiss)	EC50: = 88.7 mg/L, 48h (Daphnia magna Straus)	EC50: = 9 mg/L, 96h (Pseudokirchneriella subcapitata)

Component	Microtox	M-Factor
Dimethylamine	EC50 = 26.8 mg/L 15 min	

#### 12.2. Persistence and degradability

Persistence

Persistence is unlikely.

# 12.3. Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)		
Tetrahydrofuran	0.45	No data available		
Dimethylamine	-0.274	No data available		

# 12.4. Mobility in soil The product is water soluble, and may spread in water systems . Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

, ,

# 12.5. Results of PBT and vPvB

assessment

No data available for assessment.

# 12.6. Endocrine disrupting properties

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Tetrahydrofuran	Group III Chemical	

#### 12.7. Other adverse effects

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Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance This product does not contain any known or suspected substance

# **Section 13: Disposal considerations**

13.1. Waste treatment methods

Waste from Residues/Unused Products

**Contaminated Packaging** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

on waste and nazardous waste. Dispose of in accordance with local regulations.

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Can be landfilled or incinerated, when in

compliance with local regulations. Do not empty into drains.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

# **Section 14: Transport information**

## IMDG/IMO

**14.1. UN number** UN2924

**14.2. UN proper shipping name** FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical Shipping Name Tetrahydrofuran, Dimethylamine

14.3. Transport hazard class(es) 3 Subsidiary Hazard Class 8 14.4. Packing group II

ADR

**14.1. UN number** UN2924

**14.2. UN proper shipping name** FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical Shipping Name Tetrahydrofuran, Dimethylamine

14.3. Transport hazard class(es)
Subsidiary Hazard Class

8
14.4. Packing group

IATA

**14.1. UN number** UN2924

14.2. UN proper shipping name FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**Technical Shipping Name** Tetrahydrofuran, Dimethylamine

14.3. Transport hazard class(es)3Subsidiary Hazard Class814.4. Packing groupII

8 11

14.5. Environmental hazards No hazards identified

**14.6. Special precautions for user** No special precautions required.

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

# **Section 15: Regulatory information**

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

### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Tetrahydrofuran	109-99-9	203-726-8	-	-	Х	X	KE-33454	Х	Х
Dimethylamine	124-40-3	204-697-4	-	-	Х	X	KE-11124	X	X

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Tetrahydrofuran	109-99-9	X	ACTIVE	X	-	X	Х	X
Dimethylamine	124-40-3	Х	ACTIVE	X	-	X	Х	Х

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tetrahydrofuran	109-99-9	-	Use restricted. See entry 75. (see link for restriction details)	
Dimethylamine	124-40-3	-	Use restricted. See entry 75. (see link for restriction details)	-

# REACH links

https://echa.europa.eu/substances-restricted-under-reach

# Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Tetrahydrofuran	109-99-9	Not applicable	Not applicable
Dimethylamine	124-40-3	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

#### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

#### **WGK Classification**

Water endangering class = 1 (self classification)

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Tetrahydrofuran	WGK1	
Dimethylamine	WGK1	Class I: 20 mg/m³ (Massenkonzentration)

Component		France - INRS (Tables of occupational diseases)
Tetrahydrofuran		Tableaux des maladies professionnelles (TMP) - RG 84
Dimethylamine		Tableaux des maladies professionnelles (TMP) - RG 49,RG 49bis

#### **Swiss Regulations**

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Tetrahydrofuran 109-99-9 ( 89 )		Group I	

#### 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

# **Section 16: Other information**

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

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer

EUH019 - May form explosive peroxides

H220 - Extremely flammable gas

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

# Legend

**CAS** - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

Substances/EU List of Notified Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

#### Dimethylamine, 2M in THF

WEL - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration

NOEC - No Observed Effect Concentratio
PBT - Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

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Ships

ATE - Acute Toxicity Estimate VOC - (volatile organic compound)

TWA - Time Weighted Average

**EC50** - Effective Concentration 50% **POW** - Partition coefficient Octanol:Water

LD50 - Lethal Dose 50%

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

vPvB - very Persistent, very Bioaccumulative

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards

Health Hazards

Environmental hazards

On basis of test data
Calculation method
Calculation method

**Training Advice** 

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts. Chemical incident response training.

Prepared By Health, Safety and Environmental Department

Creation Date11-Sep-2014Revision Date07-Dec-2024Revision SummaryNot applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of Safety Data Sheet**