

## Microcystin YR (9CI) (cas 101064-48-6) MSDS

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 **Product identifiers** Product name

Identified uses

<sup>:</sup> Microcystin-YR solution

Product Number	:	33576
Brand	:	Fluka
Index-No.	:	603-001-00-X
CAS-No.	:	101064-48-6

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

: Laboratory chemicals, Manufacture of substances

#### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture 2.1

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Flammable liquids (Category 2) Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation (Category 3) Acute toxicity, Dermal (Category 3) Specific target organ toxicity - single exposure (Category 1)

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Dango

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### 2.2 Label elements

Signal word

## Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram

Signal word	Danger
Hazard statement(s) H225 H301 H311 H331 H370	Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs.
Dragourianan (atatamant/a)	
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/
	physician.
P311	Call a POISON CENTER or doctor/ physician.

Call a POISON CENTER or doctor/ physician.

Supplemental Hazard none

### According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

Statements



R-phrase(s) R11 R23/24/25 R39/23/24/25	Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
S-phrase(s)	
S7	Keep container tightly closed.
S16	Keep away from sources of ignition - No smoking.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### 2.3 Other hazards - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Synonyms	: Algae bloom toxin Cyanobacterial toxin Biotoxin		
Formula Molecular Weight	: C52H72N10O13 : 1.045,19 g/mol		
Component		Classification	Concentration
methanol CAS-No. EC-No. Index-No.	67-56-1 200-659-6 603-001-00-X	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H311, H331, H370 F, T, R11 - R23/24/25 - R39/23/24/25	-

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### **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. Take victim immediately to hospital. 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

Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion may include:, Nausea, Dizziness, Gastrointestinal disturbance, Weakness, Confusion., Drowsiness, Unconsciousness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# 4.3 Indication of any immediate medical attention and special treatment needed no data available

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. 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 concentrations. Vapours can accumulate in low areas.

#### 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 an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

#### 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 of electrostatic charge.

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

Store in cool place. 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.

Recommended storage temperature: -20 °C

## 7.3 Specific end uses

no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

#### Eye/face protection

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

#### **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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **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 (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
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- b) Odour no data available
- c) Odour Threshold no data available
- d) pH no data available
- e) Melting point/freezing no data available point
- f) Initial boiling point and 64 65 °C at 1.013 hPa boiling range
- g) Flash point 11 °C
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower Upper explosion limit: 36 %(V) flammability or Lower explosion limit: 6 %(V)

explosive limits

		explosive limits	
	k)	Vapour pressure	no data available
	I)	Vapour density	no data available
	m) F	Relative density	0,791 g/cm3
	n)	Water solubility	no data available
	- /	Partition coefficient: n- octanol/water	no data available
		Autoignition temperature	385 °C
		Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2		er safety information ata available	
10.	STA	BILITY AND REACTIVI	ΓY
10.1		<b>ctivity</b> ata available	
10.2	Chemical stability no data available		
10.3	Possibility of hazardous reactions no data available		
10.4	<b>Conditions to avoid</b> Heat, flames and sparks. Extremes of temperature and direct sunlight.		
10.5	Incompatible materials Acids, Oxidizing agents, Alkali metals, Acid chlorides, Acid anhydrides, Reducing agents		
10.6			
11.	тох		ATION
11.1	Info	rmation on toxicologica	al effects
		<b>te toxicity</b> ata available	
		ata available	
		ous eye damage/eye irr ata available	itation
		piratory or skin sensitiz ata available	zation
	Geri	m cell mutagenicity	
	no d	ata available	
	Care	cinogenicity	
	IAR		this product present at levels greater than or equal to 0.1% is identified as le or confirmed human carcinogen by IARC.
		roductive toxicity ata available	
	Sne	cific target organ toxici	tv - single exposure

Specific target organ toxicity - single exposure no data available

# Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

#### Potential health effects

Inhalation Ingestion Toxic if inhaled. Causes respiratory tract irritation. Toxic if swallowed.

Skin	Toxic if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

### Signs and Symptoms of Exposure

Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion may include:, Nausea, Dizziness, Gastrointestinal disturbance, Weakness, Confusion., Drowsiness, Unconsciousness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information** 

RTECS: Not available

#### 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

no data available

- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- **12.4 Mobility in soil** no data available
- 12.5 Results of PBT and vPvB assessment no data available
- **12.6 Other adverse effects** no data available

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

14.1	<b>UN number</b> ADR/RID: 1230		IMDG: 1230	IATA: 1230
14.2	2 UN proper shipping name ADR/RID: METHANOL, SOLUTION IMDG: METHANOL, SOLUTION IATA: Methanol, SOLUTION			
14.3	Transport ADR/RID: 3	<b>hazard class(es)</b> 3 (6.1)	IMDG: 3 (6.1)	IATA: 3 (6.1)
14.4	Packaging ADR/RID: I		IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.6	<b>Special pr</b> no data ava	ecautions for user ailable		
15.	REGULAT	ORY INFORMATION		
	This safety	datasheet complies with	the requirements of Regulation (EC	) No. 1907/2006.
15.1	Safety, he	alth and environmenta	al regulations/legislation specific f	or the substance

# Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

#### 15.2 Chemical Safety Assessment

no data available

### 16. OTHER INFORMATION

#### Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox.	Acute toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.

H370	Causes damage to organs.
STOT SE	Specific target organ toxicity - single exposure
F	Highly flammable
Т	Toxic
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

#### 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 this document is based on the resent 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. guidechem 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.