

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	:	Cereulide (solution in Methanol)
	Product Number Brand	:	10-2746 Focus Biomolecules
	CAS-No.	:	157232-64-9
1.2 Relevant identified uses of the substance or mixture and uses advised against		stance or mixture and uses advised against	
	Identified uses	:	For Laboratory Research Use Only
1.3 Details of the supplier of the safety data sheet		v data sheet	
	Company	:	Focus Biomolecules 400 Davis Drive, Suite 600 Plymouth Meeting, PA 19462
	Telephone E-mail	:	+1 855-362-8721 support@focusbiomolecules.com
1.4	Emergency telephone number		
	Emergency Phone #	:	CHEMTREC within USA/Canada 1-800- 424-9300 CHEMTREC outside USA/Canada 1-703-527-3887
2. H	IAZARDS IDENTIFICATION		

RDS IDENTIFICATION

Classification of the substance or mixture 2.1

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (Category 2), H225 Acute Toxicity, Oral (Category 3), H301 Acute toxicity, Dermal (Category 3), H311 Acute toxicity, Definial (Category 3), H311 Acute toxicity, Inhalation (Category 3), H331 Specific Target Organ Toxicity, SE, Causes damage to organs (Category 1), H370 For the full text of the H-Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements

2.2

Pictogram



Signal word Hazard statement(s)

H225 H301 H311 H331 H370

Danger Highly flammable liquid and vapor Toxic if swallowed Toxic in contact with skin Toxic if inhaled Causes damage to organs

Precautionary statement(s)	
P260	
P262	

Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing

P264	Wash hands thoroughly after handling
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection
P301 + P310	IF SWALLOWED: Immediately calla POISON CENTER or doctor/physician
P302 + P350	IF ON SKIN: Gently wash with soap and water
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in position comfortable
	for breathing
P305 + P351 + P338	IF IN EYES: Rinse continously with water for several minutes. Remove contact
	lenses if present and easy to do so - continue rinsing
P308 + P313	If exposed or concerned: Get medical advice/attention
P333 + P313	If skin irritation pr a rash occurs: Get medical advice/attention

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	: Cereulide	Methanol
Formula	$: C_{57}H_{96}N_6O_{16}$	CH_4O
Molecular weight	: 1153.40 g/mol	32.05 g/mol
CAS-No.	: 257232-64-9	67-56-1
EC-No.	:	200-659-6

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Hazardous components

Component	Classification	Concentration
Cereulide	Acute Tox. 3 (H301) Acute	5 %
Cereande	Tox. 3 (H311), Acute Tox 3	
Methanol	(H331), STOT SE 1 (H370).	
Welland	Flam. Liq 2 (H225)	95%

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Immediately remove any clothing soiled by the product.

If inhaled

Supply fresh air or oxygen. Call a physician or poison control center immediately

In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

In case of eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

If swallowed

4.2 Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately

Most important symptoms and effects, both acute and delayed

4.3 The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

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 No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

6.4 For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

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.

Keep in a dry place. Storage class (TRGS 510): 3: Combustible, acute toxic Cat. 1 and 3 / Toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values. Hazardous components without 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.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE 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 use scenario.

Body Protection

Complete suit protecting against chemicals, 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 particle respirator type N100 (US) or type P3 (EN 143) 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).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Liquid Color: Colorless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pН	No data available
e)	Melting point/freezing point	-98°C
f)	Initial boiling point and boiling range	64°C
g)	Flash point	11°C
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	No data available

explosive limits

k)	Vapour pressure	12.3 kPa (20°C)
1)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	Fully miscible
0)	Partition coefficient: n- octanol/water	-0.74 log POW
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
	• safety information ta available	

10. STABILITY AND REACTIVITY

10.1 Reactivity

9.2

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 No data available
- **10.5** Incompatible materials Strong oxidizing agents, Acid anhydrides, Acid chlorides

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

11. TOXICOLOGICAL INFORMATION 11.1

Information on toxicological effects

Acute toxicity (Methanol) Toxic by inhalation, in contact with skin and if swallowed.

Methanol: Oral-RAT LD50: 1178-2769mg/kg; Inhalation-RAT LC50/4h: 128.2mg/L

Inhalation: Toxic by inhalation (Methanol).

Dermal: Toxic in contact with skin (Methanol).

Serious eye damage/eye irritation May cause irritation

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available In vitro tests showed mutagenic effects

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.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard No data available

Additional Information

RTECS: PC1400000 (Methanol)

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

12. ECOLOGICAL

INFORMATION 12.1 Toxicity

Methanol: Aquatic: EC50/96H 18260mg/L (daphnia), 12700mg/L (Lepomis macrochirus); LC50/96h 15400mg/L (Lepomis macrochirus); Er50/96h 22000mg/L (Algae)

- 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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1230 shipping name: Metha	Class: 3 nol solution Re	Packing group: II portable Quantity (RQ): Poison		
Inhalation Hazard: No		· · · · ·		
IMDG				
UN number: 1230	Class: 3	Packing group: II		
shipping name: Methanol solution				
IATA				
UN number: 1230	Class: 3			
shipping name: Methan	nol solution	Packing group: II		

15. REGULATORY INFORMATION

	CAS-No.	Revision Date
Methanol	67-56-1	02-03-2023
SARA 313 Components This material does not contain any chemical component reporting levels established by SARA Title III, Section 3		ceed the threshold (De Minimis
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right To Know Components		
Methanol	CAS-No.	Revision Date
Pennsylvania Right To Know Components	67-56-1	02-03-2023
Methanol	CAS-No.	Revision Date
California Prop. 65 Components	67-56-1	02-03-2023
Methanol	CAS-No.	Revision Date
	67-56-1	02-03-2023

16. OTHER INFORMATION

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

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled

H370	Causes damage to organs

Further information

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