



Version 2.0 - Revision date 07/05/2020 EU SDS - NO COUNTRY-SPECIFIC DATA

IDENTIFICATION OF SUBSTANCE AND COMPANY DETAILS

Product Identifier Product name

Hippocrates/Hippocrates in MRC plates

Product number: MD1-118/MD1-118-MRC

FC No See section 3 REACH registration No. See section 3 CAS No.: See section 3

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

Identified uses Research and development

Not for drug, household or uses other than those identified Uses advised against

1.3 Details of the supplier of the Safety Datasheet

Molecular Dimensions Limited Supplier Address The Innovation centre

217 Portobello

Sheffield S1 4DP

United Kingdom +44 (0)11422 42257 Telephone:

Email address enquiries@moleculardimensions.com

Emergency telephone number

Emergency phone number

HAZARDS IDENTIFICATION 2.

Classification of substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

H316 Causes mild skin irritation H315 Causes skin irritation Causes serious eye irritation H319 H335 May cause respiratory irritation H225 Highly flammable liquid & vapour

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage Toxic to aquatic life with long-lasting effects H411 H360 May damage fertility or the unborn child

Suspected of causing cancer H351

H361 One or more of the CLP statements could not be found.

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H361fd May damage fertility. Suspected of damaging the unborn child

H318 Causes serious eye damage

H301 Toxic if swallowed

H312 Harmful in contact with skin Harmful if inhaled H332

2.2 Label elements

Labelling according to Regulation (EC) No. 1277/2008 [CLP]

Pictogram(s):



Hazard statement(s):

See section 2.1.

Precautionary statement(s):

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

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

P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking

P273 Avoid release to the environment

Immediately call a POISON CENTER or doctor/physician P310

P201 Obtain special instructions before use P308+P313 IF exposed or concerned: Get medical advice/attention

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P301+P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Other hazards

No data available

COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures						
Chemical	EC No.	REACH No.	CAS No.	Concentration	P-code(s)	H-code(s)
CHAPS	-	-	75621-03-3	9%w/v	P280	H316
CHAPSO	-	-	82473-24-3	9%w/v		
Choline chloride	200-655-4	-	67-48-1	9%w/v	P261, P305+P351+P338	H315, H319, H335
Ethanol	200-578-6	-	64-17-5	50%v/v	P210	H225
Thymol	201-944-8	-	89-83-8	1.5%w/v	P273, P280, P305+P351+P338, P310	H302, H314, H411
DL-Ala-DL-Ala	220-687-2		2867-20-1	6%w/v		
Ala-Gln			39537-23-0	6%w/v		
Gly-Glu			7412-78-4	6%w/v		



Chemical	EC No.	REACH No.	CAS No.	Concentration	P-code(s)	H-code(s)
Gly-Ala	223-019-8		3695-73-6	6%w/v		
Gly-Asp	225-140-1		4685-12-5	6%w/v		
Gly-Sar	249-875-2		29816-01-1	6%w/v		
L-Carnosine	206-169-9		305-84-0	6%w/v		
Leu-Ala hydrate			7298-84-2	6%w/v		
(+)-Sodium-L-ascorbate	205-126-1		134-03-2	9%w/v		
D-Panthenol			81-13-0	9%v/v		
Pyridoxine hydrochloride	200-386-2		58-56-0	9%w/v		
Thiamine hydrochloride	200-641-8		67-03-8	9%w/v		
Cytidine			65-46-3	6%w/v		
Inosine			58-63-9	2%w/v		
Ribavirin			36791-04-5	6%w/v	P201, P308+P313	H360
Thymidine	200-070-4		50-89-5	6%w/v		
Uridine	200-407-5		58-96-8	6%w/v		
(-)-Menthol	218-690-9		2216-51-5	1.5%w/v		H315
Caffeic acid	206-361-2		331-39-5	1.5%w/v	P261, P281, P305+P351+P338	H315, H319, H335, H351, H361
D-(-)-Quinic acid	201-072-8		77-95-2	1.5%w/v		
Gallic acid monohydrate	205-749-9		5995-86-8	1.5%w/v		
N-Vanillylnonanamide	219-484-1		2444-46-4	0.5%w/v	P261, P280, P305+P351+P338	H315, H317, H319, H335
Shikimic acid	205-334-2		138-59-0	1.5%w/v	H318	P280, P305+P351+P338+P310
Rosmarinic acid			20283-92-5	1.5%w/v		
D-(-)-Salicin	205-331-6		138-52-3	1.5%w/v	P280	H317
Esculin hydrate	208-517-5		531-75-9	0.5%w/v		
Tannic acid	215-753-2		1401-55-4	1.5%w/v		
Quinine hemisulfate salt monohydrate			207671-44-1	1%w/v	P261, P305+P351+P338	H315, H319, H335
Tryptamine	200-510-5		61-54-1	1.5%w/v	P261, P305+P351+P338	H315, H319, H335
Ampicillin sodium salt	200-708-1		69-52-3	3%w/v	P261, P280, P342+P311	H317, H334
Apramycin sulfate salt	265-890-7		65710-07-8	3%w/v	P201, P308+P313	H360
Bacitracin	215-786-2		1405-87-4	3%w/v		
Dihydrostreptomycin sesquisulfate	226-823-7		5490-27-7	3%w/v	P280, P301+P312+P330	H302, H361fd
Gentamicin sulfate	215-778-9		1405-41-0	3%w/v	P261, P280, P342+P311	H317, H334
Spectinomycin dihydrochloride pentahydrate	244-554-3		22189-32-8	3%w/v		
Sodium glycocholate hydrate			338950-81-5	9%w/v		
Taurochlolic acid sodium salt hydrate			345909-26-4	9%w/v		
Dibucaine hydrochloride	200-498-1		61-12-1	6%w/v	P280, P305+P351+P338	H302, H318
Lidocaine hydrochlorde monohydrate	200-803-8		6108-05-0	6%w/v	P301+P310	H301
Procaine hydrochloride	200-077-2		51-05-8	6%w/v	P280. P301+P310	H301, H317
Proparacaine hydrochloride	227-541-7		5875-06-9	6%w/v	P280, P305+P351+P338	H302, H312, H317, H319, H332
Tetracaine hydrochloride			136-47-0	6%w/v	P280, P301+P310, P305+P351+P338	H301, H317, H319

FIRST AID MEASURES 4.

4.1 Description of first aid measures

General notes

Consult a doctor. Show this safety datasheet to the doctor in attendance.

Following inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a doctor.

Following skin contact

Wash off with soap & water. Consult a doctor. Take off contaminated clothing & shoes immediately.

Following eye contact

Rinse thoroughly for at least 15 minutes. Consult a doctor. Flush eyes with water.

Following ingestion Rinse mouth with water. Consult a doctor. Do NOT induce vomiting.

Self-protection for first aider

Always use recommended PPE when treating patient.

4.2 Most important symptoms and effects, both acute and delayed

The most important known effects are detailed in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING METHODS

5.1 Extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas. Carbon oxides. Nitrogen oxides. Sodium oxides. Sulfur oxides.

5.3 Advice for firefighters

Wear breathing apparatus. Emits toxic fumes under fire conditions. Use water spray to cool unopened containers.

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment including respiratory protection. Avoid breathing vapours. Use personal protective equipment. Ensure adequate ventilation.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and clean up

Use spill kit to contain spillage & use wet brushing to place in a suitable container for disposal. Do not flush with water. Remove all sources of ignition. Evacuate personnel to safe areas.

6.4 Reference to any other sections

For disposal, see section 13

HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions, see section 2.2



7.2 Conditions for safe storage, including any incompatibilities.

Store in cool place. Keep container tightly closed in well-ventilated place. Containers which are opened must be carefully resealed and stored upright to prevent leakage.

7.3 Specific end use

Apart from uses in Section 1.2, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical	CAS No. Co	Country	Limit	value	- Basis
Chemical		Country	STEL	TWA	
Ethanol	64-17-5	UK		1000 mg/m ³	EH40 WEL - Workplace Exposure Limit

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Wash hands before work break and at the end of the day

8.2.2 Personal protection

Eye/face protection

Face shield & safety specs.

Skin Protection

Nitrile gloves (splash protection only) and lab coat

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as CEN (EU) as back up to engineering control

Environmental exposure controls

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance b) Odour c) Odour threshold d) pH	Transparent liquid No data available No data available No data available
e) Melting point / freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point h) Evaporation rate	No data available No data available
i) Flammability	No data available
j) Upper / lower flammability or exposure limits	No data available
k) Vapour pressure	No data available
I) Vapour density	No data available
m) Relative density	No data available
n) Solubility(ies)	No data available
o) Partition coefficient: n-octanol / water	No data available
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) Oxidising properties	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	No data available
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available

 10.5 Incompatible materials
 Strong oxidising agents, strong acids, strong bases

 10.6 Hazardous decomposition materials
 No data available. In case of fire see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity	No data available
b) Skin corrosion / irritation	No data available
c) Serious eye damage / irritation	No data available
d) Respiratory or skin sensitization	No data available
e) Germ cell mutagenicity	No data available
f) Carcinogenicity	No data available
g) Reproductive toxicity	No data available
h) STOT - single exposure	No data available
i) STOT - repeated exposure	No data available
j) Aspiration hazard	No data available

11.2 Delayed and immediate effects as well as chronic effects from short to long term exposure

Symptoms

Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. Central nervous system depression, narcosis, damage to heart. Cough, shortness of breath, headache, nausea, vomiting. Prolonged or repeated exposure can cause; Blood disorders, vomiting, Diarrhoea. Central nervous system depression, Dizziness, Blurres vision, Tremors, Drowsiness, Convulsions, Unconsciousness.

12. ECOLOGICAL INFORMATION

	12.	ECOLOGICAL IN ORNALION	
	12.1	Toxicity	No data available
1	12.2	Persistence and degradability	No data available
	12.3	Bioaccumulative potential	No data available
1	12.4	Mobility in soil	No data available
1	12.5	Results of PBT and vPvB assessment	No data available
1	12.6	Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods



Dispose of packaging as unused product. Offer surplus and non-recyclable solutions to a licensed disposal company.

Observe all EU and local environmental regulations

14. TRANSPORT INFORMATION

14.1 UN number

IMDG 3082 ICAO-TI 3082 ADN 3082 A.R.D./R.I.D. 3082

14.2 UN proper shipping name

A.R.D./R.I.D. Environmentally hazardous substance, liquid, n.o.s. I.M.D.G. Environmentally hazardous substance, liquid, n.o.s. I.C.A.O.-T.I. Environmentally hazardous substance, liquid, n.o.s. A.D.N. Environmentally hazardous substance, liquid, n.o.s.

14.3 Transport hazard class(es)

I.M.D.G. I.C.A.O.-T.I. A.D.N.

A.R.D./R.I.D.

14.4 Packaging group A.R.D./R.I.D. I.M.D.G. Ш I.C.A.O.-T.I. Ш A.D.N. Ш

14.5 Environmental hazards

A.R.D./R.I.D. Yes I.M.D.G. Yes I.C.A.O.-T.I. Yes A.D.N. Yes

14.6 Special precautions for user

A.R.D./R.I.D. No data available IMDG No data available I.C.A.O.-T.I. No data available No data available A.D.N.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

No data available.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Changes since last revision

First issue

b) Key to any abbreviations used

Personal protective equipment

A.R.D./R.I.D. International Carriage of Dangerous Goods by Road / Rail

I.M.D.G. International Maritime Dangerous Goods

I.C.A.O.-T.I. Technical Instructions for the Safe Transport of Dangerous Goods by Air

International Carriage of Dangerous Goods by Inland Waterways A.D.N.

TWA Time-weighted average STEL Short-term exposure limit

c) References and sources for data

sigma-aldrich.com

fishersci.co.uk

anatrace.com

d) Indication of methods used for classification (mixtures only)

No data available

List of Hazard and Precautionary phrase not listed in full in other sections e)

See Section 2.1.

f) Advice for training

Disclaimer:

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. Molecular Dimensions Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.