

Safety Data Sheet

A0705

Version: 2.0

according to Regulation (EU) 2015/830

Date of issue: 08/08/2011 Revision date 15/06/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Trade name : Aspartic acid (L-)

EC-No. : 200-291-6

CAS-No. : 56-84-8

REACH registration No : 01-2119966139-27

Product code : A0705 Formula : C4H7NO4

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem - The Netherlands
T +31(0)23-5319093 - F +31(0)23-5318027
info@duchefa.nl

1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

SDS Ref.: A0705

Organisation/Company	Address	Comment
World Health Organization world	http://apps.who.int/poisoncentres/	Consult website for a local poison centre
directory of poison centres		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, face protection, eye

protection.

P305+P351 - IF IN EYES: Rinse cautiously with water for several minutes. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Aspartic acid (L-)

CAS-No. : 56-84-8 EC-No. : 200-291-6

Name	Product identifier	%
Aspartic acid (L-)	(CAS-No.) 56-84-8	> 98,5
	(EC-No.) 200-291-6	

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap

and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water

Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth.

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

No additional information available

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

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray

Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in : Under fire conditions, hazardous fumes will be present:

case of fire - COx

- NOx.

Advice for firefighters 5.3.

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

Other information : Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spill should be handled by trained cleaning personnel properly equipped

with respiratory and eye protection.

6.1.1. For non-emergency personnel

Measures in case of dust release : Use good housekeeping practices to avoid rendering dust airborne.

6.1.2. For emergency responders

No additional information available

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

: Sweep up dry powder and dispose properly. Methods for cleaning up

Reference to other sections 6.4.

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation of the work station. Handle in accordance with good Precautions for safe handling

industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area

> Store at ambient temperature Keep container tightly closed. Protect material from direct sunlight.

Specific end use(s) 7.3.

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

according to Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystals. Powder.

Molecular mass : 133,1 g/mol

Colour : White.

Odour Codour threshold : No data available Codour threshold : No data available pH : 2,5 - 3,5 (4 g/l, 20 °C) Relative evaporation rate (butylacetate=1) : No data available

: 270 - 271 °C Melting point Freezing point : No data available **Boiling point** : No data available Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : Water: 5 g/l

Log Pow : -3,89

Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

 15/06/2018 Duchefa Biochemie B.V.
 EN (English)
 SDS Ref.: A0705
 4/8

Safety Data Sheet

according to Regulation (EU) 2015/830

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Strong oxidizers

Strong acids.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes:

- COx
- NOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

pH: 2,5 - 3,5 (4 g/l, 20 °C)

Serious eye damage/irritation : Causes serious eye irritation.

pH: 2,5 - 3,5 (4 g/l, 20 °C)

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspartic acid (L-) (56-84-8)

Aspiration hazard : Not classified

Other information : See actual entry in RTECS for complete information: CI9098500.

SECTION 12: Ecological information

12.1. Toxicity

Aspartic acid (L-) (56-84-8)	
LC50 fish 1	2,8 mg/l Brachydanio rerio (zebra-fish)

Safety Data Sheet

according to Regulation (EU) 2015/830

12.2. Persistence and degradability

Aspartic acid (L-) (56-84-8)	
Biodegradation	60 %

12.3. Bioaccumulative potential

Aspartic acid (L-) (56-84-8)	
Log Pow	-3,89

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Moderately toxic to aquatic life.

Additional information : Prevent entry to sewers and public waters. Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste

collection point.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA		
14.1. UN number				
Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)	14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable		
No supplementary information available				

14.6. Special precautions for user

. Overland transport

Not applicable

- Transport by sea

Not applicable

 15/06/2018 Duchefa Biochemie B.V.
 EN (English)
 SDS Ref.: A0705
 6/8

Safety Data Sheet

according to Regulation (EU) 2015/830

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Aspartic acid (L-) is not on the REACH Candidate List

Aspartic acid (L-) is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low

hazard to waters (Classification according to VwVwS, Annex 1 or 2;

ID No. 6704)

12th Ordinance Implementing the Federal Immission Control Act -

12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed: The substance is not listed: The substance is not listed

: The substance is not listed

. The substance is not listed

: The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

1.4	Emergency number	Modified	
2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed	Obsolete
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association

Safety Data Sheet

according to Regulation (EU) 2015/830

IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: ECHA (European Chemicals Agency). Supplier. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

SDS Biochemicals version 2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

15/06/2018 Duchefa Biochemie B.V. EN (English) SDS Ref.: A0705 8/8