

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



Rennin - A01958

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

1.1 Product identifier

Product name: Rennin
Product No.: A01958
CAS No.: 9001-98-3.
EC No.: Not applicable.
Index No.: 647-009-00-1.

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

Identified use(s): Enzymatic mixture for use in educational science experiments.
Professional use only.
Uses advised against: Follow supplier's recommendations on correct use of the product.

1.3 Details of the supplier of the safety data sheet

Supplier: Philip Harris
2 Gregory Street
Hyde
Cheshire
SK14 4HR
Telephone: +44 (0)845 1200 506
Fax: +44 (0)161 367 2140
E-mail: enquiries@philipharris.co.uk

1.4 Emergency telephone number

In case of emergency, call: +44 (0)845 1200 506
Monday – Friday: 08:30 – 17:00 UK time

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

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

Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), H335
Skin irritation (Category 2), H315
Respiratory sensitisation (Category 1), H334
For the full text of the H-Statements mentioned in this Section, see Section 16.

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)

2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Xi Irritant R36/37/38
R42

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

2.2.1. Label according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):



Signal Word:

Danger.

Hazard Statement(s):

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.

Precautionary Statement(s):

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

Supplemental Hazard
information (EU):

None.

2.3 Other hazards

None.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
Rennin Synonym: Chymosin	-	9001-98-3	232-645-0	647-009-00-1	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H315, H319, H334, H335	Xn; R42

See Section 16 for full description of R phrases and H statements.

SECTION 4: First Aid Measures

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



4.1 Description of first aid measures

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.

EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

INGESTION: 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:

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

4.3 Indication of any immediate medical attention and special treatments needed:

no data available

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Use extinguishant suitable for surrounding fire. Water spray, alcohol-resistant foam, CO₂ or dry powder.

Unsuitable extinguishing media: None identified.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions..

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. 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

Do not allow to enter watercourses or surface water drainage (storm drains). Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and clearing up

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



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

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. 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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Workplace exposure limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Personal protection

Eye 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:

Hand 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.

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other:

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:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards:

Not applicable.

8.2.3 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Solid
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid; gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility(ies):	Not available.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not applicable.
Explosive properties:	Not explosive.
Oxidising properties:	Not oxidising.

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



9.2 Other information

None known.

SECTION 10: Stability and Reactivity

10.1	Reactivity	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	No data available.
10.6	Hazardous decomposition products	Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	No data available.
	Inhalation: No data available.
Skin corrosion/irritation	No data available.
Serious eye damage/irritation	No data available.
Skin sensitisation	No data available.
Respiratory sensitisation	No data available.
Germ cell mutagenicity	No data available.
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.
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.

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



SECTION 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	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
12.6	Other adverse effects	No data available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

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

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport Information

ADR

14.1	UN Number	Not classified.
14.2	UN Proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for the user	-

ADN

14.1	UN Number	Not classified.
14.2	UN Proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for the user	-

RID

14.1	UN Number	Not classified.
14.2	UN Proper shipping name	-
14.3	Transport hazard class(es)	-

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for the user	-

IATA/ICAO

14.1	UN Number	Not classified.
14.2	UN Proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for the user	-

IMDG

14.1	UN Number	Not classified.
14.2	UN Proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for the user	-
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	The product is not intended to be transported in bulk.

SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- 15.2 Chemical Safety Assessment**
A chemical safety assessment has not been carried out.

SECTION 16: Other Information

Full text of relevant H-statements referred to under sections 2 and 3:

Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
Resp. Sens.	Respiratory sensitisation.
Skin. Irrit.	Skin irritation.
STOT SE	Specific target organ toxicity - single exposure.

Safety Data Sheet

According to Regulation (EC)
No. 1907/2006 (REACH)



Full text of relevant R0phrases referred to under sections 2 and 3:

Xn
R36/37/38
R42

Harmful
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation.

Disclaimer:

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

Version history:

Version:	5.0
Issue date:	26/02/2013
Previous Version:	-
Issue date of previous version:	-
Sections changed from previous version:	-