

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.1

Revision Date 15.05.2019

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name : Calpain Activity Fluorometric Assay Kit

Product Number : MAK228

Brand : Sigma

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Pte Ltd
(Co. Registration No. 199403788W)
2 Science Park Drive
#05-01/12 Ascent Building
SINGAPORE 118222
SINGAPORE

Telephone : +65 6890 6633

Fax : +65 6890 6639

E-mail address : TechnicalService@merckgroup.com

1.4 Emergency telephone number

Emergency Phone # : 1-800-262-8200

This is a summary MSDS for a kit, for the full MSDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 4), H312
Serious eye damage (Category 1), H318
Skin sensitisation (Category 1), H317
Long-term (chronic) aquatic hazard (Category 2), H411



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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H302 + H312

Harmful if swallowed or in contact with skin.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H331

Toxic if inhaled.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261

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

P280

Wear eye protection/ face protection.

P280

Wear protective gloves/ protective clothing.

P304 + P340 + P311

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

P305 + P351 + P338 +
P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P403 + P233

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

Supplemental Hazard
Statements

none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

Refer to component MSDS

SECTION 4: First aid measures

Refer to component MSDS

SECTION 5: Firefighting measures

Refer to component MSDS

SECTION 6: Accidental release measures

Refer to component MSDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.



7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature -70 °C

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

Refer to component MSDS

SECTION 9: Physical and chemical properties

Refer to component MSDS

SECTION 10: Stability and reactivity

Refer to component MSDS

SECTION 11: Toxicological information

Refer to component MSDS

SECTION 12: Ecological information

Refer to component MSDS

SECTION 13: Disposal considerations

Refer to component MSDS

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3316

IMDG: 3316

IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available



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.
Refer to component MSDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information


Kit Components:


Extraction Buffer	Sigma	MAK228A	Acute Tox. 4; Acute Tox. 3; Acute Tox. 4; Eye Dam. 1; Skin Sens. 1; Aquatic Chronic 2; H302 + H312, H317, H318, H331, H411
10X Reaction Buffer	Sigma	MAK228B	Eye Dam. 1; Skin Sens. 1; Aquatic Chronic 2; H317, H318, H411
Calpain Substrate Ac- LLY-AFC	Sigma	MAK228C	
Active Calpain I (Positive Control)	Sigma	MAK228D	
Calpain Inhibitor Z-LLY- FMK	Sigma	MAK228E	

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.




Kit Components:

Extraction Buffer					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - MAK228A		Danger	Harmful if swallowed or in contact with skin. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. Toxic to aquatic life with long lasting effects.	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. Store in a well-ventilated place. Keep container tightly closed. Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wear protective gloves/ protective clothing.	

10X Reaction Buffer					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - MAK228B		Danger	May cause an allergic skin reaction. Causes	Wear eye protection/ face protection. IF IN	



			serious eye damage. Toxic to aquatic life with long lasting effects.	EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wear protective gloves.	
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Calpain Substrate Ac-LLY-AFC					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - MAK228C					Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Active Calpain I (Positive Control)					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - MAK228D					Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Calpain Inhibitor Z-LLY-FMK					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - MAK228E					Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

