

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.3

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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 : Spectrum™ Plant Total RNA Kit

Product Number : STRN250

Brand : Sigma

REACH No. : This product is a mixture. REACH Registration Number see section 3.

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)
1 Science Park Road
#02-14 The Capricorn, S'pore Sci. PkII
SINGAPORE 117528
SINGAPORE

Telephone : +65 6779-1200

Fax : +65 6779-1822

1.4 Emergency telephone

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 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 2), H310

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Reproductive toxicity (Category 2), H361d

Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Heart, H373

Short-term (acute) aquatic hazard (Category 1), H400



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)

H301 + H331

Toxic if swallowed or if inhaled.

H310

Fatal in contact with skin.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H361d

Suspected of damaging the unborn child.

H373

May cause damage to organs (Liver, Heart) through prolonged or repeated exposure if swallowed.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 + P310

IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.

P304 + P340 + P311

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

Reduced Labeling (<= 125 ml)

Pictogram



Signal word

Danger

Hazard statement(s)

H310

Fatal in contact with skin.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H361d

Suspected of damaging the unborn child.

H301 + H331

Toxic if swallowed or if inhaled.

Precautionary statement(s)

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 + P310

IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.

P304 + P340 + P311

IF INHALED: Remove person to fresh air and keep comfortable



P305 + P351 + P338	for breathing. Call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Stench.

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

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

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: II

IMDG: II

IATA: II

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**

Sigma- STRN250

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The life science business of Merck operates as MilliporeSigma in the US and Canada



This material safety data sheet 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:

Lysis solution	Sigma	L8167	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319
2-Mercaptoethanol	Sigma	M3148	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1A; Repr. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 2; H301 + H331, H310, H315, H317, H318, H361d, H373, H410
Binding solution	Sigma	L8042	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319
Wash solution 1	Sigma	W1141	
Wash solution 2	Sigma	W3261	
Concentrate for Total RNA			
Elution solution	Sigma	E8024	

Further information

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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Kit Components:

Lysis solution					
Product identifier	Pictogram	Signal word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - L8167		Warning	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.	Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Do not eat, drink or smoke when using this product. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ 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.	

2-Mercaptoethanol					
Product identifier	Pictogram	Signal word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - M3148		Danger	Toxic if swallowed or if inhaled. Fatal in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye	Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Wear protective gloves/ protective	



			<p>damage. Suspected of damaging the unborn child. May cause damage to organs (/\$/*_2ORG_RE P_ORA/\$/)</p> <p>through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects.</p>	<p>clothing/ eye protection/ face protection/ hearing protection. IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>	
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Binding solution					
Product identifier	Pictogram	Signal word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - L8042		Warning	<p>Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.</p>	<p>Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Do not eat, drink or smoke when using this product. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with</p>	



				water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
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Wash solution 1

Product identifier	Pictogram	Signal word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - W1141					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Wash solution 2 Concentrate for Total RNA

Product identifier	Pictogram	Signal word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - W3261					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Elution solution

Product identifier	Pictogram	Signal word	Hazard Statements	Precautionary Statements	Supplemental information
Sigma - E8024					Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

