

SAFETY DATA SHEET

ACCORDING DIRECTIVE (EU) Nr. 1907/2008

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code (s):

rdSTK0601, rdSKH1201, rdSKH2401, rdSKH9601, rdSKO1201, rdSKO2401, rdSKO9601, rdSKC1201, rdSKC2401, rdSKC9601

Product name: **riboPOOL Trial 6 reaction kit, riboPOOL 12 reaction kit, riboPOOL 96 reaction kit**

<u>Kit components</u>	<u>Amount (varies with kit size)</u>
riboPOOL (lyophilized powder of nucleic acids)	1 tube
Nuclease-free water	1 ml
Depletion buffer	8-16 ml
Hybridization buffer	1 ml
Streptavidin-coated magnetic beads	0.6-1.2 ml
Linear acrylamide	10-110 µl
Sodium Acetate, 3M	0.1-1.1 ml

REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/Undertaking identification:

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For research use only. Not intended for human or animal diagnostic or therapeutic procedures.

2. Hazards identification

Linear acrylamide is known to be hazardous according to directive (EC) Nr. 1272/2008 [CLP]

Other components in kit contain no hazardous substance or no hazardous mixture according to EU directive 1907/2006/EG or 1272/2008/EG and require no labelling as hazardous.

Hazard pictograms (Linear acrylamide)



European Union, EU – specific hazard statements

Hazard Statement(s)

H340 – May cause genetic defects

H350 – May cause cancer

H317 – May cause an allergic skin reaction

Precautionary Statement(s)

Prevention

P201 - Obtain special instructions before use

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

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

P202 - Do not handle until all safety precautions have been read and understood

P272 - Contaminated work clothing should not be allowed out of the workplace

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

Storage

Not Applicable

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

Not Applicable

3. Composition/information on ingredients

Caution is recommended when handling chemicals.

Component	CAS No	EINECS-No.	Weight-%	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acrylamide 79-06-1 (0.5 - <1)	79-06-1	201-173-7	0.5 - <1	-	Carc. 1B - H350 Muta. 1B - H340 Repr. 2 - H361 Acute Tox. 3 - H301 STOT RE 1 - H372 Acute Tox. 4 - H332 Acute Tox. 4 - H312 Eye Irrit. 2 - H319 Skin Irrit. 2 - H315 Skin Sens. 1 - H317

4. First aid measures

General precautions

Consult a physician. Show the physician this material safety data sheet.

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Skin contact

Rinse with plenty of water. If symptoms arise, see a physician.

Eye contact

Rinse immediately with plenty of water. If symptoms persist, see a physician.

Ingestion

Never give anything to an unconscious person by mouth. If symptoms persist, call a physician.

Do not induce vomiting without medical advice.

Inhalation

Move to fresh air. If symptoms persist, consult a physician. If not breathing, give artificial respiration.

Notes to physician

Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H340 – May cause genetic defects

H350 – May cause cancer

H317 – May cause an allergic skin reaction

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

5. Fire-fighting measures**Suitable extinguishing media**

Water spray, carbon dioxide (CO₂), foam, dry chemical

Specific hazards during fire fighting

No data available

Special protective equipment for firefighters

Wear self-containing breathing apparatus and protective suit.

Additional information

No data available

6. Accidental release measures**Personal precautions**

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mist. Ensure adequate ventilation. See section 8 for more information.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

7. Handling and storage**Handling**

Always wear recommended Personal Protective Equipment. Wash hands before breaks and immediately after handling the product. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours or mists. If during normal use the material presents a respiratory hazard, use adequate ventilation and/or wear appropriate respirator. See section 8 for more information.

Storage

Keep in a dry, cool and well-ventilated place. Store in original container. See product label for specific storage conditions.

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8. Exposure controls/personal protection

Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Acrylamide 79-06-1	None	None	None
Chemical Name	Austria	Belgium (TWA)	Czech Republic
Acrylamide 79-06-1	None	0.03 mg/m ³	None
Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Acrylamide 79-06-1	0.03 mg/m ³	0.3 mg/m ³	0.1 ppm 0.3 mg/m ³
Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Acrylamide 79-06-1	None	0.03 mg/m ³	None
Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
Acrylamide 79-06-1	0.03 mg/m ³	0.16 mg/m ³	0.03 mg/m ³ TWA 0.09 mg/m ³ STEL
Chemical Name	Poland	Portugal	Spain OEL (TWA)
Acrylamide 79-06-1	0.07 mg/m ³ TWA Skin Notation	0.03 mg/m ³ TWA skin - potential for cutaneous exposure A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	0.03 mg/m ³
Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Acrylamide 79-06-1	0.03 mg/m ³ TLV NGV	0.03 mg/m ³ TWA	0.3 mg/m ³ TWA

Engineering measures

Ensure adequate ventilation, especially in confined areas.

9. Physical and chemical properties

a) Physical state	solid / powder / liquids
b) Odour	this information is not available
c) Odour threshold	this information is not available
d) pH	this information is not available
e) melting point / freezing point	this information is not available
f) boiling point / melting point	this information is not available
g) Flash point	this information is not available
h) Vapour pressure	this information is not available
i) Explosion limits	this information is not available
j) Density	this information is not available
k) Water solubility	this information is not available
l) Percent volatile	this information is not available
m) Volatile organic	this information is not available
n) Auto ignition temperature	this information is not available
o) Viscosity	this information is not available

10. Stability and reactivity

Stability

stable under normal conditions

Materials to avoid

no dangerous reactions known under normal use

Hazardous decomposition products

none under normal use

Polymerisation

hazardous polymerisation does not occur

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11. Toxicological information

Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acrylamide	= 177 mg/kg Oral LD50	No data available	No data available

Potential health effects see paragraph 2

Principal Routes of Exposure

Skin corrosion/irritation Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitisation May cause sensitisation by skin contact

Specific target organ toxicity (STOT) – single exposure Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – repeated exposure Data are conclusive but insufficient for classification

Carcinogenicity Contains a known or suspected carcinogen

Germ cell mutagenicity Product is or contains a chemical which may cause mutations in the germ cells of humans

Reproductive Toxicity Product is or contains a chemical which is a known or suspected reproductive hazard

Aspiration Hazard Data are conclusive but insufficient for classification

12. Ecological information

Ecotoxicity effects

Chemical Name Data	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox	log Pow
Acrylamide	No data available	Daphnia magna EC50=98 mg/L (48 h)	No data available	No data available	logPow-1.24

Mobility no information available

Biodegradation no information available

Bioaccumulation no information available

13. Disposal considerations

Dispose in accordance with local or national regulations.

14. Transport information

IATA

Proper shipping name non dangerous goods

Hazard class none

Subsidiary class none

Packaging group none

UN-Nr none

15. Regulatory information

Substances of Very High Concern

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Chemical Name	Weight-%	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV
Acrylamide	0.5 - 1	Reason for inclusion Carcinogenic, Article 57a; Mutagenic, Article 57b

Substances listed under Annex I of Regulation (EC) No 689/2008

None

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

None.

German Water hazard classes (Wassergefährdungsklassen)

Chemical Name	Weight-%	Water hazard class (WGK)
Acrylamide	0.5 - 1	hazard class 3 - highly hazardous to water

Other International Inventories

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Acrylamide	Listed	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Acrylamide	Listed	Listed	Listed	-

Chemical safety assessment

No Chemical safety assessment has been carried out

16. Other information

The information in this SDS was acquired by diligent investigation and the recommendations are based on prudent application of professional judgement. It should not be relied upon as a product specification. The information shall not be taken as being all inclusive and is to be used as a guide. All materials and mixtures may represent unknown hazards and should be used with caution. siTOOLS Biotech does not control the methods, amounts or conditions of use and shall not be held liable for any damages or losses resulting from the handling or from contact with the product. siTOOLS Biotech does not make any warranty of any kind, expressed or implied, concerning the safe use of this material in your procedures or in combination with other chemical substances, including any implied warranty of merchantability or fitness for any particular purpose.

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End of safety data sheet

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