

06/10/2015



## Kit Components

Product code	Description
1610172	
1610173	
1610174	
1610175	
1610170	
1610171	
10033888	TGX™ FastCast™ Acrylamide Kit
10033887	
10033890	
10033889	
10033891	
10033886	

## Components:

10033837	FastCast™ Stacker A
10033833	TGX FastCast™ Stacker/Resolver B
10033830	FastCast™ Resolver A, 7.5%, 10%, 12%

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Safety

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acc. to OSHA HCS

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## 1 Identification

- Product identifier
  - Trade name: FastCast™ Stacker A
- Catalog or product number: 10033837, 10033829, 10040501
- Relevant identified uses of the substance or mixture and uses advised against
  - No further relevant information available.
- Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    - Bio-Rad Laboratories, Life Science Group
    - 2000 Alfred Nobel Drive
    - Hercules, California 94547
    - (510)741-1000
- Information department:
  - Technical services, customer support
    - lsg\_techserv\_us@bio-rad.com
- Emergency telephone number:
  - 1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.
  - 510-741-1000

## 2 Hazard(s) identification

- Classification of the substance or mixture
  - Acute Tox. 4 H302 Harmful if swallowed.
  - Skin Sens. 1 H317 May cause an allergic skin reaction.
  - Muta. 1B H340 May cause genetic defects.
  - Carc. 1B H350 May cause cancer.
  - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  - STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- Label elements
  - GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
 

 GHS07 GHS08

## Signal word Danger

- Hazard-determining components of labeling:
  - acrylamide
  - N,N'-methylenediacrylamide
- Hazard statements
  - H302 Harmful if swallowed.
  - H317 May cause an allergic skin reaction.
  - H340 May cause genetic defects.
  - H350 May cause cancer.
  - H361 Suspected of damaging fertility or the unborn child.

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H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements
  - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  - P280 Wear protective gloves.
  - P321 Specific treatment (see on this label).
  - P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information: Contact with acids may cause release of toxic gases
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

## Chemical characterization: Mixtures

Description: Mixture of the substances listed below with non-hazardous additions.

## Listing of dangerous and non-hazardous components:

79-06-1	acrylamide	5-10%
7732-18-5	water	50-100%

Additional information For the wording of the listed risk phrases refer to section 15.

## 4 First-aid measures

- Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of complaints.
  - After eye contact Rinse opened eye for several minutes under running water.
  - After swallowing Induce vomiting and call for medical help.
  - Information for doctor
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents
  - CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing.

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## Environmental precautions:

Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.  
Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Reference to other sections

See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

## Handling

- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.

## Conditions for safe storage, including any incompatibilities

## Storage

- Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

## Control parameters

## Components with limit values that require monitoring at the workplace:

## 79-06-1 acrylamide

PEL	Long-term value: 0.3 mg/m <sup>3</sup>
	Skin

REL	Long-term value: 0.03 mg/m <sup>3</sup>
	Skin; See Pocket Guide App. A

TLV	Long-term value: 0.03* mg/m <sup>3</sup>
	Skin; *inhalable fraction and vapor

Additional information: The lists that were valid during the creation were used as basis.

## Exposure controls

## Personal protective equipment

## General protective and hygienic measures Wash hands before breaks and at the end of work.

## Breathing equipment: Not required.

## Protection of hands: Protective gloves.

## Material of gloves Synthetic gloves

## Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection: Safety glasses

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**9 Physical and chemical properties**

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odour threshold:	Not determined.
pH-value:	Not determined.

## · Change in condition

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	100 °C

## · Flash point:

Not applicable

## · Flammability (solid, gaseous)

Not applicable.

## · Ignition temperature:

Not determined.

## · Decomposition temperature:

Product is not selfigniting.

## · Auto igniting:

Product does not present an explosion hazard.

## · Danger of explosion:

Not determined.

## · Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

## · Vapor pressure at 20 °C:

23 hPa

## · Density at 20 °C:

1.00157 g/cm³

## · Relative density

Not determined.

## · Vapour density

Not determined.

## · Evaporation rate

Not determined.

## · Solubility in / Miscibility with

Water: Not miscible or difficult to mix

## · Partition coefficient (n-octanol/water): Not determined.

## · Viscosity:

dynamic: Not determined.

kinematic: Not determined.

## · Solvent content:

Organic solvents: 0.0 %

Water: 92.1 %

## · Solids content:

7.6 %

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## · Other information

No further relevant information available.

**10 Stability and reactivity**

## · Reactivity

## · Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions: No dangerous reactions known

· Conditions to avoid: No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: Carbon monoxide

**11 Toxicological information**

## · Information on toxicological effects

## · Acute toxicity:

## · LD/LC50 values for hazardous components per OSHA criteria:

79-06-1 acrylamide

Oral LD50 124 mg/kg (rat)

Dermal LD50 400 mg/kg (rat)

## · Primary irritant effect:

· on the skin: No irritant effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

## · Carcinogenic categories

## · IARC (International Agency for Research on Cancer)

79-06-1 acrylamide

2A

## · NTP (National Toxicology Program)

79-06-1 acrylamide

R

## · OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

**12 Ecological information**

## · Toxicity

· Aquatic toxicity: No further relevant information available.

· Persistence and degradability: No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential: No further relevant information available.

· Mobility in soil: No further relevant information available.

## · Additional ecological information:

## · General notes:

Water danger class 3 (Internal calculation) (Self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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- Danger to drinking water if even extremely small quantities leak into the ground.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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**13 Disposal considerations**

- Waste treatment methods
- Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information**

UN-Number	Void
DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	Void
DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	Void
DOT, ADR, ADN, IMDG, IATA	Void
Class	Void
Packing group	Void
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)
- Section 302/304 (40CFR355.30 / 40CFR355.40):  
79-06-1 acrylamide
- Section 313 (40CFR372.65):  
79-06-1 acrylamide

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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

79-06-1 acrylamide

· **Developmental Toxicity**

79-06-1 acrylamide

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

79-06-1 acrylamide

B2

· **TLV (Threshold Limit Value established by ACGIH)**

79-06-1 acrylamide

A3

· **MAK (German Maximum Workplace Concentration)**

79-06-1 acrylamide

2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

79-06-1 acrylamide

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
II	5-10

· Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environmental Health and Safety.

· **Contact:**

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· **Date of preparation / last revision:** 06/10/2015 /

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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