

Section 1 - Product and Company Information

Product Name:	SEAP Reporter Assay Kit
Cat. Code:	rep-sap InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100 San Diego, California 92121, USA (+1) 858 457 5873
Company identification:	InvivoGen Europe, 5 rue Jean Rodier 31400 Toulouse, France +33 (0) 5 62 71 69 39
Emergency number:	ORFILA (INRS): +33 (0) 1 45 42 59 59

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

Section 2 – Hazards Identification

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS

Acute toxicity, Oral (Category 4), H302
Specific target organ toxicity - repeated exposure (Category 2), H373
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 3), H402

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H402 Harmful to aquatic life.

Precautionary statements

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or a doctor/ physician if you feel unwell.
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330 Rinse mouth.
P501 Dispose of contents/container to an approved waste disposal plant.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



R-phrase(s)

S22 Harmful if swallowed.

S38 Irritating to skin.

S41 Risk of serious damage to eyes.

R48 Danger of serious damage to health by prolonged exposure.

S-phrase(s)


S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

Section 3 – Composition/Information on Ingredient

The SEAP Reporter Assay Kit contains the components listed below.

Ingredient	CAS Number	EC Number	GHS Classification	Pictogram
Assay buffer containing 5-35 % diethanolamine CAS# 111-42-2	Not available	Not available	Acute toxicity, Oral (Category 4), Specific target organ toxicity - repeated exposure (Category 2), Serious eye damage (Category 1), Acute aquatic toxicity (Category 3); H302, H315, H318, H402, P264, P270, P273, P280, P301 + P312, P305 + P351 + P338, P310, P330, P501	
Dilution buffer	Not available	Not available	Not dangerous	None
L-homoarginine	1483-01-8	216-045-6	Not dangerous	None
SEAP substrate (4-Nitrophenyl phosphate disodium salt hexahydrate)	333338-18-4	224-246-5	Not dangerous	None

Section 4 – First Aid Measures

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.

After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special Firefighting Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

Method for Cleaning Up: Sweep up and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7 – Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

User Exposure: Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apron).

Storage: For the recommended storage temperature for each component of this kit, refer to the technical data sheet.

Section 8 – Exposure Controls / PPE

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Diethanolamine	111-42-2	TWA	3 ppm 15 mg/m ³	USA. OSHA - TABLE Z-1 Limits for air contaminants - 1910.1000
		TWA	1 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
		TWA	3 ppm 15 mg/m ³	USA. NIOSH Recommended Exposure Limits

Remarks: Liver damage and kidney damage. Confirmed animal carcinogen with unknown relevance to humans. Danger of cutaneous absorption.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

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 and body protection

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.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 – Physical / Chemical Properties

Appearance

Physical state: Not available

Color: Not available

Safety Data

Odor: Not available

Odor threshold: Not available

pH: Not available

Melting point/freezing point: Not available
Initial boiling point and boiling range: Not available
Flash point: Not available
Evaporation rate: Not available
Flammability: Not available
Upper/lower flammability or explosive limits: Not available
Vapor pressure: Not available
Relative density: Not available
Solubility: Not available
Partition coefficient (n-octanol/water): Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available

Section 10 – Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions
Possibility of hazardous reactions: No data available
Conditions to avoid: No data available
Incompatible materials: Strong acids, strong oxidizing agents, ammonia, hydrochloric acid, cyanides
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions; carbon oxides, nitrogen oxides (NOx), hydrogen cyanide (hydrocyanic acid).

Section 11 – Toxicological Information

Acute toxicity: LD50 Oral 710 mg/kg (rat; Diethanolamine)
LD50 Dermal 12,200 mg/kg (rabbit; Diethanolamine)
Acute toxicity: No data available
Skin corrosion/irritation: Draize Test - Mild skin irritation 24 h (rabbit; Diethanolamine)
Serious eye damage/irritation: Severe eye irritation 24 h (rabbit; Diethanolamine)
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: 2B - Group 2B: Possibly carcinogenic to humans (Diethanolamine)
Reproductive toxicity: No data available
Additional information: RTECS: KL2975000 (Diethanolamine)

Section 12 – Ecological Information

Ecotoxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available

Section 13 – Disposal Considerations

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.
Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

ADR/RID: Not dangerous goods
DOT (US): Not dangerous goods

IATA: Not dangerous goods

IMDG: Not dangerous goods

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

SARA 302 Component: None of the ingredients are listed.

SARA 313 Component: The following component is subject to reporting levels established by SARA Title III, Section 313.

Diethanolamine CAS no. 111-42-2

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

U.S. State Regulations

Chemical Name	Massachusetts RTK	New Jersey RTK	Pennsylvania RTK
Diethanolamine CAS no. 111-42-2	X	X	X

California Proposition 65: WARNING! This product contains a chemical known to the State of California to cause cancer.

Diethanolamine CAS no. 111-42-2

Section 16 – Other Information

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.