

**according to WHS Regulations**

Printing date 28.07.2021

Revision: 28.07.2021

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

- **Product identifier**
- **Trade name:** ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION
- **Article number:** N8125034
- **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:**

PerkinElmer, Inc.  
710 Bridgeport Avenue  
Shelton, Connecticut 06484 USA  
CustomerCareUS@perkinelmer.com  
203-925-4600

-----  
Supplier/Local:  
-----

PerkinElmer Australia  
Lvl 2, Bldg 5, Brandon Office Park  
530-540 Springvale Road  
Glen Waverley  
Melbourne  
VIC 3150  
Australia  
1-800-033-391  
ausales@perkinelmer.com

- **Emergency telephone number:**  
CHEMTREC (within US) 800-424-9300  
CHEMTREC (from outside US) +1 703-527-3887 (call collect)  
CHEMTREC (within AU) +(61)-290372994

## \* 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonised System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**  
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

AU

according to WHS Regulations

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION




















· vPvB: Not applicable.

(Contd. of page 1)

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void

#### · Additional Components

7732-18-5	Water	99.36%
7697-37-2	Nitric Acid	0.5%
	 Ox. Liq. 2, H272  Skin Corr. 1, H314	
7440-45-1	cerium	0.02%
	 Water-react. 2, H261	
7439-92-1	lead	0.01%
	 Repr. 1A, H360	
7439-89-6	iron	0.01%
	 Acute Tox. 2, H300	
7439-95-4	magnesium	0.01%
	 Pyr. Sol. 1, H250; Water-react. 1, H260	
7440-09-7	potassium	0.01%
	 Water-react. 1, H260  Skin Corr. 1, H314	
7440-16-6	rhodium	0.01%
7440-23-5	sodium	0.01%
	 Water-react. 1, H260  Skin Corr. 1, H314	
7440-39-3	barium	0.01%
	 Water-react. 2, H261	
7440-41-7	beryllium	0.01%
	 Acute Tox. 3, H301; Acute Tox. 2, H330  Carc. 1B, H350; STOT RE 1, H372  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7440-48-4	cobalt	0.01%
	 Resp. Sens. 1, H334  Skin Sens. 1, H317	
7440-61-1	uranium	0.01%
	 Acute Tox. 2, H300; Acute Tox. 2, H330  STOT RE 2, H373	
7440-70-2	calcium	0.01%
	 Water-react. 2, H261	
7440-74-6	Indium	0.01%

(Contd. on page 3)

AU

**according to WHS Regulations**

Printing date 28.07.2021

Revision: 28.07.2021

**Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION**

(Contd. of page 2)

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### **4 First Aid Measures**

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult 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:** Use fire extinguishing methods suitable to surrounding conditions.
- **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** Not required.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of 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 measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

(Contd. on page 4)

according to WHS Regulations

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION

(Contd. of page 3)

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

· **Eye protection:** Goggles recommended during refilling

## 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Liquid

Colour:

Transparent

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

· **pH-value at 20 °C:**

<4

· **Change in condition**

Melting point/freezing point:

0 °C

Initial boiling point and boiling range: 100 °C

· **Flash point:**

Not applicable.

· **Flammability (solid, gas):**

Not applicable.

· **Decomposition temperature:**

Not determined.

(Contd. on page 5)

AU

according to WHS Regulations

Printing date 28.07.2021

Revision: 28.07.2021

Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION

(Contd. of page 4)

· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard. Not determined.
· <b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	Not determined. Not determined.
· <b>Vapour pressure at 20 °C:</b>	23 hPa
· <b>Density at 20 °C:</b> · <b>Relative density</b> · <b>Vapour density</b> · <b>Evaporation rate</b>	1 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not determined. Not determined.
· <b>Solvent content:</b> <b>Water:</b>	99.4 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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:** No dangerous decomposition products known.

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

(Contd. on page 6)

AU

**according to WHS Regulations**

Printing date 28.07.2021

Revision: 28.07.2021

**Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION**

(Contd. of page 5)

**· Additional toxicological information:**

*The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.*

*When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.*

## 12 Ecological Information

**· Toxicity**

**· Aquatic toxicity:** *No further relevant information available.*

**· Persistence and degradability** *No further relevant information available.*

**· Behaviour in environmental systems:**

**· Bioaccumulative potential** *No further relevant information available.*

**· Mobility in soil** *No further relevant information available.*

**· Additional ecological information:**

**· General notes:**

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

**· Results of PBT and vPvB assessment**

**· PBT:** *Not applicable.*

**· vPvB:** *Not applicable.*

**· Other adverse effects** *No further relevant information available.*

## 13 Disposal considerations

**· Waste treatment methods**

**· Recommendation** *Smaller quantities can be disposed of with household waste.*

**· Uncleaned packaging:**

**· Recommendation:** *Disposal must be made according to official regulations.*

**· Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

## 14 Transport information

**· UN-Number**

**· ADG, ADN, IMDG, IATA**

*Void*

**· UN proper shipping name**

**· ADG, ADN, IMDG, IATA**

*Void*

**· Transport hazard class(es)**

**· ADG, ADN, IMDG, IATA**

**· Class**

*Void*

**· Packing group**

**· ADG, IMDG, IATA**

*Void*

**· Environmental hazards:**

**· Marine pollutant:**

*No*

(Contd. on page 7)

AU

**according to WHS Regulations**

Printing date 28.07.2021

Revision: 28.07.2021




**Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION**

(Contd. of page 6)

- |   |  |
|---|--|
| · <b>Special precautions for user</b>                                       | Not applicable.  |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.  |
| · <b>UN "Model Regulation":</b>   | Non regulated according to above specifications.<br>Void |

**15 Regulatory information**

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

7732-18-5	Water		99.36%
7697-37-2	Nitric Acid	 Ox. Liq. 2, H272  Skin Corr. 1, H314	0.5%
7440-45-1	cerium	 Water-react. 2, H261	0.02%

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

**16 Other information**

**Disclaimer**

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· **Relevant phrases**

H250 Catches fire spontaneously if exposed to air.

H260 In contact with water releases flammable gases which may ignite spontaneously.

H261 In contact with water releases flammable gases.

H272 May intensify fire; oxidiser.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

(Contd. on page 8)

**according to WHS Regulations**

Printing date 28.07.2021

Revision: 28.07.2021

**Trade name: ELAN 6100 DRC SENSITIVITY / DETECTION LIMIT SOLUTION**

(Contd. of page 7)

*H317 May cause an allergic skin reaction.*

*H319 Causes serious eye irritation.*

*H330 Fatal if inhaled.*

*H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

*H335 May cause respiratory irritation.*

*H350 May cause cancer.*

*H360 May damage fertility or the unborn child.*

*H372 Causes damage to organs through prolonged or repeated exposure.*

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

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

· **Contact:**

*Within the USA: 1-(800)-762-4000*

*Outside the USA: 1-(203)-712-8488*

· **Abbreviations and acronyms**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*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*

*IATA: International Air Transport Association*

*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)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

· **\* Data compared to the previous version altered.**

AU