

Printing date 20.09.2018 Revision: 20.09.2018

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

1 Identification

- · Product identifier
- · Trade name: STD-COLD PLASMA OPTIMIZATION SOL
- · Article number: N8151032
- · 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)



Printing date 20.09.2018 Revision: 20.09.2018

Trade name: STD-COLD PLASMA OPTIMIZATION SOL

(Contd. of page 1)

· vPvB: Not applicable.

3 Composition and Information on Ingredients

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

· Additional	· Additional Components				
7697-37-2	Nitric Acid	Ox. Liq. 2, H272Skin Corr. 1A, H314	0.1%		
7440-46-2	Cesium nitrate		0.0001%		
7440-74-6	Indium		0.0001%		
7439-93-2	lithium		0.0001%		
7439-92-1	lead	Acute Tox. 3, H301 • Repr. 1A, H360-H362 • Acute Tox. 4, H332	0.0001%		
7440-17-7	rubidium	Water-react. 1, H260Skin Corr. 1B, H314; Eye Dam. 1, H318	0.0001%		
7440-48-4	cobalt	& Resp. Sens. 1, H334 ••• Skin Sens. 1, H317	0.0001%		
7732-18-5	Water		99.8994%		

[·] 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.

(Contd. on page 3)



Printing date 20.09.2018 Revision: 20.09.2018

Trade name: STD-COLD PLASMA OPTIMIZATION SOL

(Contd. of page 2)

- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: 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 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.
- · *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.

(Contd. on page 4)



Printing date 20.09.2018 Revision: 20.09.2018

Trade name: STD-COLD PLASMA OPTIMIZATION SOL

(Contd. of page 3)

· Penetration time of glove material

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

· Eye protection: Goggles recommended during refilling

Information on basic physical and chemical properties General Information				
Form:	Fluid			
Colour:	Dark brown			
Odour:	Characteristic			
Odour threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition				
Melting point/freezing point:	Undetermined.			
Initial boiling point and boiling range	2: 100 °C			
Flash point:	Not applicable.			
Flammability (solid, gas):	Not applicable.			
Decomposition temperature:	Not determined.			
Auto-ignition temperature:	Product is not selfigniting.			
Explosive properties:	Product does not present an explosion hazard.			
Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
Vapour pressure at 20 °C:	23 hPa			
Density:	Not determined.			
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:				
Water:	99.9 %			



Printing date 20.09.2018 Revision: 20.09.2018

Trade name: STD-COLD PLASMA OPTIMIZATION SOL

(Contd. of page 4)

· Other information

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.
- · 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: Not hazardous for water.
- · 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.

(Contd. on page 6)



Printing date 20.09.2018 Revision: 20.09.2018

Trade name: STD-COLD PLASMA OPTIMIZATION SOL

(Contd. of page 5)

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

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:	Not applicable.		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of Marpol			
and the IBC Code	Not applicable.		
UN ''Model Regulation'':	Non regulated according to above specifications. Void		

	15 Regulatory information							
· Safety, health and environmental regulations/legislation specific for the substance or mixture								
	7732-18-5	Water		99.8994%				
	7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	0.1%				
	7440-74-6	Indium		0.0001%				

- · 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.

- · Waterhazard class: Generally not 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,

(Contd. on page 7)



Printing date 20.09.2018 Revision: 20.09.2018

Trade name: STD-COLD PLASMA OPTIMIZATION SOL

(Contd. of page 6)

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

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

H272 May intensify fire; oxidiser.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

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

H360 May damage fertility or the unborn child.

H362 May cause harm to breast-fed children.

· 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

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

ΑU