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according to 1907/2006/EC, Article 31

Printing date 27.07.2021

Revision: 27.07.2021

SECTION 1: Identification of the substance/mixture and of the company/unde	rtaking
· 1.1 Product identifier	
· Trade name: Elan Smart Tune Solution -STD	
· Article number: N8125040	
\cdot 1.2 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	
• 1.3 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	
PerkinElmer, Inc.	
Chalfont Road Buckinghamshire	
Seer Green HP9 2FX	
cc.uk@perkinelmer.com United Kingdom	
P: 0800 896 046	
F: 0800-89 17 14	
PerkinElmer, Inc.	
Llantrisant Business Park, Unit A	
Llantrisant CF72 8YW	
United Kingdom	
cc.uk@perkinelmer.com	
P: 44 1443 234005	
• 1.4 Emergency telephone number: CHEMTREC (within US) 800-424-9300	
CHEMTREC (waan 05) 600-424-9500 CHEMTREC (from outside US) +1 703-527-3887 (call collect)	
CHEMTREC (within AU) +(61)-290372994	
SECTION 2: Hazards identification	
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2 H319 Causes serious eye irritation.	
· 2.2 Label elements	
· Labelling according to Regulation (EC) No 1272/2008	
The product is classified and labelled according to the CLP regulation.	
Hazard pictograms GHS07	
· Signal word Warning	(C
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• Hazard stateme	ents
H315 Causes sl	kin irritation.
H319 Causes se	erious eye irritation.
· Precautionary	statements
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
· 2.3 Other haza	rds
The product de	oes not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or
formaldehydes.	
· Results of PBT	and vPvB assessment
· PBT: Not appli	icable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

CAS: 7697-37-2 EINECS: 231-714-2	Nitric Acid Ox. Liq. 2, H272	1.0% 814
Additional Compon	ents	
CAS: 7732-18-5 EINECS: 231-791-2	Water	98.91%
CAS: 7439-92-1 EINECS: 231-100-4	lead	0.01%
CAS: 7439-95-4 EINECS: 231-104-6	magnesium	0.01%
CAS: 7440-16-6 EINECS: 231-125-0	rhodium	0.01%
CAS: 7440-39-3 EINECS: 231-149-1	barium Water-react. 2, H261	0.01%
CAS: 7440-41-7 EINECS: 231-150-7	beryllium Acute Tox. 3, H301; Acute Tox. 2, H330 Carc. 1B, H350i; STOT RE 1, H372 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.01%
CAS: 7440-45-1 EINECS: 231-154-9	cerium Water-react. 2, H261	0.01%
CAS: 7440-48-4 EINECS: 231-158-0	cobalt Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 4, H413	0.01%



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CAS: 7440-61-1	uranium	0.01%	
EINECS: 231-170-6	 Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 4, H413 	_	
CAS: 7440-74-6	Indium	0.01%	
EINECS: 231-180-0			
• Additional information: For the wording of the listed hazard phrases refer to section 16.			

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

• 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- 6.4 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

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Printing date 27.07.2021 Revision: 27.07.2021 Trade name: Elan Smart Tune Solution -STD (Contd. of page 3) · Information about fire - and explosion protection: No special measures required. · 7.2 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: Keep container tightly sealed. • 7.3 Specific end use(s) No further relevant information available. SECTION 8: Exposure controls/personal protection · 8.1 Control parameters • Additional information about design of technical facilities: No further data; see item 7. · Ingredients with limit values that require monitoring at the workplace: 7697-37-2 Nitric Acid WEL Short-term value: 2.6 mg/m³, 1 ppm · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Respiratory protection: Not required. Protection of hands: Protective gloves 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Tightly sealed goggles (Contd. on page 5)



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· 9.1 Information on basic physical and chemical properties		
· General Information		
Appearance:	Timid	
Form: Colour:	Liquid Transparent	
· Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value at 20 °C:	<3	
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.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard. Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density at 20 °C:	$l g/cm^3$	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	98.9 %	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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· 10.2 Chemical stability

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

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- \cdot **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- ·Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 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.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

· vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR, IMDG, IATA	UN3264
· 14.2 UN proper shipping name · ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.((Nitric Acid)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (N Acid)
· 14.3 Transport hazard class(es)	
·ADR	
· Class · Label	8 (C1) Corrosive substances. 8
Class Label	8 Corrosive substances. 8
· 14.4 Packing group	0
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	80
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	80 F-A,S-B
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups 	80 F-A,S-B Acids
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category 	80 F-A,S-B Acids A SW2 Clear of living quarters.



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Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
· · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (NITRIC ACID), 8, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture			
CAS: 7732-18-5 EINECS: 231-791-2	Water		98.91%
CAS: 7697-37-2 EINECS: 231-714-2	Nitric Acid	😵 Ox. Liq. 2, H272 Skin Corr. 1A, H314	1.0%
CAS: 7439-92-1 EINECS: 231-100-4	lead	🚸 Repr. 1A, H360FD-H362	0.01%

· Directive 2012/18/EU

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

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

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: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

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 concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warrany 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 with the product. Relevant phrases Relevant phrase R			(Contd. of maga 8)
 considered a warranty or quality specification. All materials may present unknown hazards, and should be used with courton. Allhough certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life and Analytical Sciences shall not be held hable 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. H271 In contact with water releases flammable gases. H272 May intensify fire: oxidiser. H300 Facial if swallowed. H311 Causes sever sets with the and eve damage. H313 Causes sever sets with near and eve damage. H315 Causes sever sets with near and eve damage. H316 Causes sever sets with near and eve damage. H317 May cause an allergic skin reaction. H317 May cause an allergic skin reaction. H318 Causes sever sets y irritation. H330 Fatai (finalida. H331 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H333 May cause respiratory irritation. H336 May cause and to regars through prolonged or repeated exposure. H337 Causes damage to organs through prolonged or repeated exposure. H331 May cause damage to organs through prolonged or repeated exposure. H331 May cause damage to organs through prolonged or repeated exposure. H331 May cause damage to argans through prolonged or repeated exposure. H331 May cause damage to organs through prolonged or repeated exposure. H331 May cause damage to organs through prolonged or repeated exposure. H331 May cause damage to argans through prolonged or repeated exposure. H331 May cause damage to argans through prolonged or repeated exposure. H332 May cause dama	concern	ing its accuracy and completeness. It is intended as guidance only and is not to be	(Contd. of page 8)
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 1250 Catches fire spontaneously if exposed to air. 1260 In contact with water releases flammable gases. 1272 May intensify fire; oxidiser. 1380 Fatal if swallowed. 1381 Toxic if swallowed. 1381 Toxic if swallowed. 1381 Toxic if swallowed. 1381 Toxic if swallowed. 1381 Causes servere skin hurns and eye damage. 1383 May causes an allergic skin reaction. 1383 May cause an energic skin reaction. 1383 May cause an allergic skin reaction. 1383 May cause and an allergic skin reaction. 1383 May cause and and the analytical science of the state o			
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United Kingdom Telephone : 0800-89 60 46 FAX : 0800-89 17 14 • 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 Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Ist of Notified Chemical Substances CAS: Chemical Astracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
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Trade name: Elan Smart Tune Solution -STD

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Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 • * Data compared to the previous version altered.