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according to WHS Regulations

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Hazardous according to criteria of Australian Safety and Compensation Council.

Identification
Product identifier
Trade name: <u>STD, Tuning Solution 1</u> Article number: N9303843 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
Hazard(s) Identification
Classification of the substance or mixture
Corrosion
Skin Corr. 1 H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.
Label elements GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS) Hazard pictograms GHS05
Signal word Danger (Contd. on page



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· Hazard-detern	nining components of labelling:
Hydrochloric A	Acid
Nitric Acid	
• Hazard statem	nents
H314 Causes s	severe skin burns and eye damage.
· Precautionary	<i>statements</i>
P260	Do not breathe dusts or mists.
P303+P361+1	P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+1	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
• Other hazards	
The product a formaldehydes	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or

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

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

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

7647-01-0	Hydrochloric Acid	5.0%
	 Skin Corr. 1, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335 	
7697-37-2	Nitric Acid The second	2.09
	🤣 Skin Corr. 1, H314	
Additional	Components	
7732-18-5	Water	92.988%
7439-92-1	lead	0.001%
	 <i>Repr. 1A, H360</i>	
7439-93-2	lithium	0.001%
	Water-react. 1, H260 Skin Corr. 1, H314	
7439-95-4	magnesium	0.001%
	🛞 Pyr. Sol. 1, H250; Water-react. 1, H260	
7440-16-6	rhodium	0.001%
7440-28-0	thallium	0.001%



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7440-39-3		0.001%
	Water-react. 2, H261	
7440-41-7	beryllium	0.001%
	Acute Tox. 3, H301; Acute Tox. 2, H330	
	💩 Carc. 1B, H350; STOT RE 1, H372	
	𝔅 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7440-45-1	cerium	0.001%
	🛞 Water-react. 2, H261	
7440-48-4	cobalt	0.001%
	🗞 Resp. Sens. 1, H334	
	N Skin Sens. 1, H317	
7440-61-1	uranium	0.001%
	<i>⊗</i> Acute Tox. 2, H300; Acute Tox. 2, H330	
	🕉 STOT RE 2, H373	
7440-65-5	yttrium	0.001%
7440-74-6	Indium	0.0019

4 First Aid Measures

- · 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. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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.
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental Release Measures

• *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.*

Wear protective equipment. Keep unprotected persons away.

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• 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). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: The product is not flammable. Keep respiratory protective device available.
- · 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.
- 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:

7647-01-0 Hydrochloric Acid

WES Peak limitation: 7.5 mg/m³, 5 ppm

7697-37-2 Nitric Acid

WES Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm

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

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

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(Contd. of page 4) Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin. • Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. • 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 9 Physical and Chemical Properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Colour: **Transparent Odourless Odour:** Not determined. • Odour threshold: Not determined. · pH-value: · Change in condition $\theta \circ C$ *Melting point/freezing point:* 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.

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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:	93.0 %	
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 Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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. Must not reach sewage water or drainage ditch undiluted or unneutralised.

- 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

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

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

· UN-Number	
· ADG, IMDG, IATA	UN3264
· UN proper shipping name	
·ADĜ	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.C
	(Nitric Acid, HYDROCHLORIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.C.
,	(Nitric Acid, HYDROCHLORIC ACID)



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Transport hazard class(es)	
ADG	
\wedge	
Class	8 (C1) Corrosive substances.
Label	8
IMDG, IATA	
8	
Class	8 Corrosive substances.
Label	8
Packing group	
ADG, IMDG, IATA	II
Environmental hazards:	N-
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code): EMS Number:	80 F-A,S-B
Segregation groups	Acids
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of Mar	pol
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	<i>E</i>
IMDG	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml



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· UN ''Model Regulation'':

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UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROCHLORIC ACID), 8, II

15 Regulatory information

7732-18-5	Water	92.988%
7647-01-0	Hydrochloric Acid	5.0%
	Skin Corr. 1, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	
	Nitric Acid	2.0%
	Ox. Liq. 2, H272 Skin Corr. 1, H314	
Australia:	Priority Existing Chemicals	

· 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: 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.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.	
H318 Causes serious eye damage.	
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	
<i>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations (</i>	Concerning the
International Transport of Dangerous Goods by Rail)	soncerning ine
ICAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning th	e 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	
Ox. Liq. 2: Oxidizing liquids – Category 2	
Acute Tox. 4: Acute toxicity - oral – Category 4	
Skin Corr. 1: Skin corrosion/irritation – Category 1	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
• * Data compared to the previous version altered.	
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