

Page 1/13

Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2020

Reviewed on 05/22/2020

Product identifier		
Trade name: <u>PE Stock</u>	Tuning Solution 2	
Article number: ICP-M	5-TS-13	
Details of the supplier o	f the safety data sheet	
Manufacturer/Supplier		
High-Purity Standards		
7221 Investment Drive,	North Charleston, SC 29418 United States	
Telephone: +1-843-767	7900	
Fax: +1-843-767-7906		
highpuritystandards.com		
Email: info@highpurity	standards.com	
Information departmen	: Product safety department	
Emergency telephone n	umber:	
INFOTRAC		
Emergency telephone ni	mbers1-800-535-5053	
Other emergency teleph	one numbers 1-352-323-3500	

2 Hazard(s) identification

· Classification of the substance or mixture

GHS05 Corrosion

Met. Corr.1H290May be corrosive to metals.Skin Corr. 1AH314Causes severe skin burns and eye damage.Eye Dam. 1H318Causes serious eye damage.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

• *Hazard-determining components of labeling: nitric acid*

• *Hazard statements* H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.

• **Precautionary statements** Keep only in original container.

(Contd. on page 2)



Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

(Contd. of page 1) Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. *IF INHALED: Remove person to fresh air and keep comfortable for breathing.* If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. *Immediately call a poison center/doctor.* Specific treatment (see on this label). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE 0 Fire = 0**REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous	components:	
7697-37-2 r	itric acid	2.0%
· Chemical id	entification of the substance/preparation	
7732-18-5	water, distilled, conductivity or of similar purity	97.501%
7647-01-0	hydrochloric acid	0.49%
513-77-9	barium carbonate	0.001%
543-81-7	beryllium acetate	0.001%
1306-38-3	cerium dioxide	0.001%
		(Contd. on page 3)



Page 3/13

Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

		(Contd. of page 2)
7439-92-1		0.001%
	magnesium	0.001%
7440-48-4		0.001%
7440-74-6		0.001%
	rhodium trichloride	0.001%
10102-06-4	Uranyl nitrate	0.001%

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 copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for 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 fighting measures that suit the environment.
- 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.
Environmental precautions: 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 neutralizing 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.

(Contd. on page 4)

US



Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

See Section	13 for disposal information.	(Contd. of pag
	ction Criteria for Chemicals	
PAC-1:		
7697-37-2	nitric acid	0.16 ppm
7647-01-0	hydrochloric acid	1.8 ppm
513-77-9	barium carbonate	2.2 mg/m
1306-38-3	cerium dioxide	3 mg/m ³
7439-92-1	lead	0.15 mg/n
7439-95-4	magnesium	18 mg/m ³
7440-48-4	cobalt	0.18 mg/n
7440-74-6	indium	0.3 mg/m ²
10102-06-4	Uranyl nitrate	0.99 mg/n
PAC-2:		ł
7697-37-2	nitric acid	24 ppm
7647-01-0	hydrochloric acid	22 ppm
513-77-9	barium carbonate	270 mg/n
1306-38-3	cerium dioxide	33 mg/m ⁻
7439-92-1	lead	120 mg/n
7439-95-4	magnesium	200 mg/n
7440-48-4	cobalt	$2 mg/m^3$
7440-74-6	indium	3.3 mg/m
10102-06-4	Uranyl nitrate	5.5 mg/m
PAC-3:		
7697-37-2	nitric acid	92 ppm
7647-01-0	hydrochloric acid	100 ppm
513-77-9	barium carbonate	1,600 mg/n
1306-38-3	cerium dioxide	200 mg/m ³
7439-92-1	lead	700 mg/m ³
7439-95-4	magnesium	1,200 mg/n
7440-48-4	cobalt	$20 mg/m^3$
7440-74-6	indium	20 mg/m ³
10102-06-4	Uranyl nitrate	33 mg/m ³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 5)

US

Page 4/13



Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

Prevent formation of aerosols.

• Information about protection against explosions and fires: 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 receptacle tightly sealed.

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

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

• Components with limit values that require monitoring at the workplace:

7697-37-2 nitric acid

PEL Long-term value: 5 mg/m³, 2 ppm

REL Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

• Additional information: The lists that were valid during the creation 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 6)

(Contd. of page 4)

Page 5/13



Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

· 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:



Tightly sealed goggles

9 Physical and chemical properties

General Information		
Appearance:		
Form:	Liquid	
Color:	colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.01143 g/cm ³ (8.44038 lbs/gal)	
Bulk density:	1,011 kg/m ³	
Relative density	Not determined.	
Vapor density	Not determined.	

Page 6/13

(Contd. of page 5)

US



Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

		(Contd. of page
Evaporation rate	Not determined.	
Solubility in / Miscibility with	i and the second se	
Water:	Fully miscible.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	97.5 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
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:
- · LD/LC50 values that are relevant for classification:

7647-01-0 hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- *The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive*

(Contd. on page 8)

US

Page 7/13



Page 8/13

Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2020

Reviewed on 05/22/2020

(Contd. of page 7)

Trade name: PE Stock Tuning Solution 2

Irritant

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

· Carcinogenic categories

· IARC (Inte	rnational Agency for Research on Cancer)	
7647-01-0	hydrochloric acid	3
543-81-7	beryllium acetate	1
7439-92-1	lead	2B
7440-48-4	cobalt	2B
· NTP (Natio	onal Toxicology Program)	
543-81-7	beryllium acetate	K
7439-92-1	lead	R
7440-48-4	cobalt	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior 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.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · 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 of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- *Recommendation:* Disposal must be made according to official regulations.

(Contd. on page 9)

⁻ US



Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

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

(Contd. of page 8)

DOT, ADR, IMDG, IATA UN3264 UN proper shipping name DOT Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O (NITRIC ACID) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITR ACID) Transport hazard class(es) DOT DOT Class Class 8 Corrosive substances Label 8 ADR 8 Class 8 (C1) Corrosive substances Label 8 PODG, IATA 8 Class 8 (C1) Corrosive substances Label 8 Packing group Storpicable. Pot, ADR, IMDG, IATA III Environmental hazards: Not applicable. Special precautions for user Warning: Corrosive substances Special precautions for user Warning: Corrosive substances	UN-Number	
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Hazard identification number (Kemler code): 80	Environmental hazards:	Not applicable.
	Hazard identification number (Kemler code): 80 F-A,S-B



Page 10/13

Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

	(Contd. of page
· Segregation groups	Acids
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
·IMDG	
· Limited quantities (LQ)	5L
\cdot 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

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355	o (extremely hazardous substances):	
7697-37-2	nitric acid	
7647-01-0	hydrochloric acid	
· Section 313	3 (Specific toxic chemical listings):	
7697-37-2	nitric acid	
7647-01-0	hydrochloric acid	
513-77-9	barium carbonate	
543-81-7	beryllium acetate	
7439-92-1	lead	
7440-48-4	cobalt	
· TSCA (Tox	ic Substances Control Act):	
7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
7697-37-2	nitric acid	ACTIVE
	· (Conte	d. on page 11)



Page 11/13

Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

		(Contd. of page 1
7647-01-0	hydrochloric acid	ACTIVI
513-77-9	barium carbonate	ACTIVE
1306-38-3	cerium dioxide	ACTIVE
7439-92-1	lead	ACTIVI
7439-95-4	magnesium	ACTIVI
7440-48-4	cobalt	ACTIVI
7440-74-6	indium	ACTIVI
10049-07-7	rhodium trichloride	ACTIVI
10102-06-4	Uranyl nitrate	ACTIVI
· Hazardous 4	Air Pollutants	•
7647-01-0	nydrochloric acid	
7439-92-1 i	ead	
7440-48-4 (obalt	
· Proposition	65	
· Chemicals k	nown to cause cancer:	
543-81-7 l	peryllium acetate	
7439-92-1 l	ead	
7440-48-4	robalt	
· Chemicals k	nown to cause reproductive toxicity for females:	
7439-92-1 l	ead	
· Chemicals k	nown to cause reproductive toxicity for males:	
7439-92-1 l	ead	
· Chemicals k	nown to cause developmental toxicity:	
7439-92-1 i	ead	
· Carcinogen	e catogorios	
-	onmental Protection Agency)	
	parium carbonate	D, CBD(inh), NL(oral
	erium dioxide	II
7439-92-1		B2
	hold Limit Value established by ACGIH)	
	hydrochloric acid	A
	barium carbonate	A
7439-92-1		
7440-48-4		A.
	rhodium trichloride	A
	(National Institute for Occupational Safety and Health)	71
	beryllium acetate	



Page 12/13

Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2020

Reviewed on 05/22/2020

Trade name: PE Stock Tuning Solution 2

(Contd. of page 11) 10102-06-4 Uranyl nitrate • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS05 · Signal word Danger · Hazard-determining components of labeling: nitric acid · Hazard statements H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. · Precautionary statements Keep only in original container. Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

Contact: High-Purity Standards Tel: 843-767-7900
Fax: 843-767-7906
Date of preparation / last revision 05/22/2020 / -

(Contd. on page 13)

US



Printing date 05/22/2020

Reviewed on 05/22/2020

(Contd. of page 12)

Trade name: PE Stock Tuning Solution 2

• 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Met. Corr.1: Corrosive to metals – Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Page 13/13