

SAFETY DATA SHEET



7500 Series PA Tuning Solution Set, Part Number 5188-6524

Section 1. Identification

1.1 Product identifier

Product name : 7500 Series PA Tuning Solution Set, Part Number 5188-6524
Part no. (chemical kit) : 5188-6524
Part no. : 7500 Series PA Tuning 1 5188-6524-1
 7500 Series PA Tuning 2 5188-6524-2
Validation date : 5/9/2024

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use
 7500 Series PA Tuning 1 100 ml
 7500 Series PA Tuning 2 100 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : 7500 Series PA Tuning 1 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 7500 Series PA Tuning 2 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

7500 Series PA Tuning 1

H290 CORROSIVE TO METALS - Category 1
 H314 SKIN CORROSION - Category 1
 H318 SERIOUS EYE DAMAGE - Category 1
 H411 AQUATIC HAZARD (LONG-TERM) - Category 2

7500 Series PA Tuning 2

H290 CORROSIVE TO METALS - Category 1
 H331 ACUTE TOXICITY (inhalation) - Category 3
 H314 SKIN CORROSION - Category 1
 H318 SERIOUS EYE DAMAGE - Category 1

2.2 GHS label elements

Section 2. Hazards identification

Hazard pictograms : 7500 Series PA Tuning 1



7500 Series PA Tuning 2



Signal word : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Danger
Danger

Hazard statements : 7500 Series PA Tuning 1

H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H411 - Toxic to aquatic life with long lasting effects.
7500 Series PA Tuning 2
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H331 - Toxic if inhaled.

Precautionary statements

Prevention : 7500 Series PA Tuning 1

P280 - Wear protective gloves, protective clothing and eye or face protection.
P234 - Keep only in original packaging.
P273 - Avoid release to the environment.
7500 Series PA Tuning 2
P280 - Wear protective gloves, protective clothing and eye or face protection.
P234 - Keep only in original packaging.
P261 - Avoid breathing vapor.

Response : 7500 Series PA Tuning 1

P391 - Collect spillage.
P390 - Absorb spillage to prevent material damage.
P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing before reuse.
P305 + P351 + P338, P310 - 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 or doctor.
7500 Series PA Tuning 2
P390 - Absorb spillage to prevent material damage.
P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing before reuse.
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

Section 2. Hazards identification

Storage	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	rinsing. Immediately call a POISON CENTER or doctor. Not applicable. Not applicable.
Disposal	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.
2.3 Other hazards		
Hazards not otherwise classified	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Causes respiratory tract burns. Causes digestive tract burns. Causes respiratory tract burns. Causes digestive tract burns.

Section 3. Composition/information on ingredients

Substance/mixture	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Mixture Mixture
--------------------------	--	--------------------

Ingredient name	%	CAS number
7500 Series PA Tuning 1		
nitric acid	≤10	7697-37-2
Cadmium	<0.0025	7440-43-9
7500 Series PA Tuning 2		
Hydrochloric acid	≥10 - ≤25	7647-01-0
nitric acid	≤3	7697-37-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Section 4. First aid measures

Eye contact	: 7500 Series PA Tuning 1	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	7500 Series PA Tuning 2	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: 7500 Series PA Tuning 1	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	7500 Series PA Tuning 2	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: 7500 Series PA Tuning 1	Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	7500 Series PA Tuning 2	Get medical attention immediately. Call a poison

Section 4. First aid measures

Ingestion : 7500 Series PA Tuning 1

center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

7500 Series PA Tuning 2

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Causes serious eye damage.
Causes serious eye damage.

Inhalation : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Corrosive to the respiratory system.
Toxic if inhaled. Corrosive to the respiratory system.

Skin contact : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Causes severe burns.
Causes severe burns.

Ingestion : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

May cause burns to mouth, throat and stomach.
Corrosive to the digestive tract. Causes burns.
May cause burns to mouth, throat and stomach.
Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: pain watering redness
	7500 Series PA Tuning 2	Adverse symptoms may include the following: pain watering redness
Inhalation	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: respiratory tract irritation coughing
	7500 Series PA Tuning 2	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	7500 Series PA Tuning 2	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: stomach pains
	7500 Series PA Tuning 2	Adverse symptoms may include the following: stomach pains

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: 7500 Series PA Tuning 1	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	7500 Series PA Tuning 2	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	No specific treatment. No specific treatment.
Protection of first-aiders	: 7500 Series PA Tuning 1	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	7500 Series PA Tuning 2	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 7500 Series PA Tuning 1	Use an extinguishing agent suitable for the surrounding fire.
	7500 Series PA Tuning 2	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 7500 Series PA Tuning 1	None known.
	7500 Series PA Tuning 2	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: 7500 Series PA Tuning 1	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	7500 Series PA Tuning 2	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: 7500 Series PA Tuning 1	Decomposition products may include the following materials: nitrogen oxides
	7500 Series PA Tuning 2	Decomposition products may include the following materials: nitrogen oxides halogenated compounds

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 7500 Series PA Tuning 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	7500 Series PA Tuning 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 7500 Series PA Tuning 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	7500 Series PA Tuning 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 7500 Series PA Tuning 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	7500 Series PA Tuning 2	No action shall be taken involving any personal risk or without suitable training. Evacuate

Section 6. Accidental release measures

<p>For emergency responders : 7500 Series PA Tuning 1</p> <p style="padding-left: 100px;">7500 Series PA Tuning 2</p>	<p>surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p>6.2 Environmental precautions : 7500 Series PA Tuning 1</p> <p style="padding-left: 100px;">7500 Series PA Tuning 2</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
<p>6.3 Methods and materials for containment and cleaning up</p> <p>Methods for cleaning up : 7500 Series PA Tuning 1</p> <p style="padding-left: 100px;">7500 Series PA Tuning 2</p>	<p>Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.</p> <p>Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.</p>

Section 7. Handling and storage

7.1 Precautions for safe handling

<p>Protective measures : 7500 Series PA Tuning 1</p>	<p>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.</p>
---	--

Section 7. Handling and storage

	7500 Series PA Tuning 2	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
Advice on general occupational hygiene	: 7500 Series PA Tuning 1	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	7500 Series PA Tuning 2	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: 7500 Series PA Tuning 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	7500 Series PA Tuning 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Section 7. Handling and storage

Recommendations	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
7500 Series PA Tuning 1 nitric acid	<p>ACGIH TLV (United States, 1/2024). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2020). TWA: 2 ppm 10 hours. TWA: 5 mg/m³ 10 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL (United States, 5/2018). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours.</p> <p>CAL OSHA PEL (United States, 5/2018). STEL: 10 mg/m³ 15 minutes. STEL: 4 ppm 15 minutes. TWA: 5 mg/m³ 8 hours. TWA: 2 ppm 8 hours.</p>
Cadmium	<p>OSHA PEL 1989 (United States, 3/1989). [Cadmium dust (as Cd)] TWA: 0.2 mg/m³, (as Cd) 8 hours. Form: Dust CEIL: 0.6 mg/m³, (as Cd) Form: Dust</p> <p>OSHA PEL Z2 (United States, 2/2013). TWA: 0.2 mg/m³ 8 hours. Form: Dust CEIL: 0.6 mg/m³ Form: Dust TWA: 0.1 mg/m³ 8 hours. Form: Fume CEIL: 0.3 mg/m³ Form: Fume</p> <p>OSHA PEL 1989 (United States, 3/1989). [Cadmium] TWA: 5 µg/m³ 8 hours.</p> <p>OSHA PEL (United States, 5/2018). TWA: 5 µg/m³, (as Cd) 8 hours.</p> <p>ACGIH TLV (United States, 1/2024). [Cadmium and compounds] TWA: 0.002 mg/m³, (as Cd) 8 hours. Form: Respirable fraction</p> <p>CAL OSHA PEL (United States, 5/2018). TWA: 0.005 mg/m³, (as Cd) 8 hours. Form: dust</p>
7500 Series PA Tuning 2	

Section 8. Exposure controls/personal protection

Hydrochloric acid	<p>ACGIH TLV (United States, 1/2024). C: 2 ppm</p> <p>OSHA PEL 1989 (United States, 3/1989). CEIL: 5 ppm CEIL: 7 mg/m³</p> <p>NIOSH REL (United States, 10/2020). CEIL: 5 ppm CEIL: 7 mg/m³</p> <p>OSHA PEL (United States, 5/2018). CEIL: 5 ppm CEIL: 7 mg/m³</p> <p>CAL OSHA PEL (United States, 5/2018). C: 2 ppm TWA: 0.45 mg/m³ 8 hours. TWA: 0.3 ppm 8 hours.</p>
nitric acid	<p>ACGIH TLV (United States, 1/2024). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2020). TWA: 2 ppm 10 hours. TWA: 5 mg/m³ 10 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL (United States, 5/2018). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours.</p> <p>CAL OSHA PEL (United States, 5/2018). STEL: 10 mg/m³ 15 minutes. STEL: 4 ppm 15 minutes. TWA: 5 mg/m³ 8 hours. TWA: 2 ppm 8 hours.</p>

[Biological exposure indices](#)

Ingredient name	Exposure indices
<p>7500 Series PA Tuning 1</p> <p>Cadmium</p>	<p>ACGIH BEI (United States, 1/2024) [cadmium and inorganic compounds] BEI: 5 µg/g creatinine, cadmium [in urine]. Sampling time: not critical. BEI: 5 µg/l, cadmium [in blood]. Sampling time: not critical.</p>

[8.2 Exposure controls](#)

Appropriate engineering controls

- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 8. Exposure controls/personal protection

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: 7500 Series PA Tuning 1	Liquid.
	: 7500 Series PA Tuning 2	Liquid.
Color	: 7500 Series PA Tuning 1	Not available.
	: 7500 Series PA Tuning 2	Not available.
Odor	: 7500 Series PA Tuning 1	Not available.
	: 7500 Series PA Tuning 2	Not available.
Odor threshold	: 7500 Series PA Tuning 1	Not available.
	: 7500 Series PA Tuning 2	Not available.
pH	: 7500 Series PA Tuning 1	<2
	: 7500 Series PA Tuning 2	<2
Melting point/freezing point	: 7500 Series PA Tuning 1	Not available.
	: 7500 Series PA Tuning 2	Not available.
Boiling point, initial boiling point, and boiling range	: 7500 Series PA Tuning 1	Not available.
	: 7500 Series PA Tuning 2	Not available.

Section 9. Physical and chemical properties and safety characteristics

Flash point	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.
Evaporation rate	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.
Flammability	: 7500 Series PA Tuning 1	Not applicable.
	7500 Series PA Tuning 2	Not applicable.
Lower and upper explosion limit/flammability limit	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.

Vapor pressure	:	Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		7500 Series PA Tuning 1						
		nitric acid	48.0039	6.4	-	-	-	
		water	17.5	2.3	-	92.258	12.3	
		7500 Series PA Tuning 2						
		nitric acid	48.0039	6.4	-	-	-	
		water	17.5	2.3	-	92.258	12.3	

Relative vapor density	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.
Relative density	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.

Solubility(ies)	:	Media	Result
		7500 Series PA Tuning 1	
		water	Soluble
		7500 Series PA Tuning 2	
		water	Soluble

Partition coefficient: n-octanol/water	: 7500 Series PA Tuning 1	Not applicable.
	7500 Series PA Tuning 2	Not applicable.
Auto-ignition temperature	: <input checked="" type="checkbox"/> Not available.	
Decomposition temperature	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.
Viscosity	: 7500 Series PA Tuning 1	Not available.
	7500 Series PA Tuning 2	Not available.

Particle characteristics

Median particle size	: <input checked="" type="checkbox"/> 7500 Series PA Tuning 1	Not applicable.
	7500 Series PA Tuning 2	Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity	: 7500 Series PA Tuning 1	No specific test data related to reactivity available for this product or its ingredients.
	7500 Series PA Tuning 2	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: 7500 Series PA Tuning 1	The product is stable.
	7500 Series PA Tuning 2	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	No specific data. No specific data.
10.5 Incompatible materials	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
10.6 Hazardous decomposition products	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
7500 Series PA Tuning 1 nitric acid	LC50 Inhalation Vapor	Rat	2500 ppm	1 hours
	LC50 Inhalation Vapor	Rat	130 mg/m ³	4 hours
	LD50 Oral	Rat	225 mg/kg	-
7500 Series PA Tuning 2 Hydrochloric acid nitric acid	LC50 Inhalation Gas.	Rat	3124 ppm	1 hours
	LC50 Inhalation Vapor	Rat	2500 ppm	1 hours
	LC50 Inhalation Vapor	Rat	130 mg/m ³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
7500 Series PA Tuning 1 Cadmium	+	1	Known to be a human carcinogen.
7500 Series PA Tuning 2 Hydrochloric acid	-	3	-

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
7500 Series PA Tuning 2 Hydrochloric acid	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
7500 Series PA Tuning 1 Cadmium	Category 1	inhalation	bones, kidneys, lungs

Aspiration hazard

Not available.

Information on the likely routes of exposure : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Causes serious eye damage.
Causes serious eye damage.

Inhalation : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Corrosive to the respiratory system.
Toxic if inhaled. Corrosive to the respiratory system.

Skin contact : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Causes severe burns.
Causes severe burns.

Ingestion : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

May cause burns to mouth, throat and stomach.
Corrosive to the digestive tract. Causes burns.
May cause burns to mouth, throat and stomach.
Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : 7500 Series PA Tuning 1
7500 Series PA Tuning 2

Adverse symptoms may include the following:
pain
watering
redness
Adverse symptoms may include the following:
pain
watering
redness

Section 11. Toxicological information

Inhalation	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: respiratory tract irritation coughing
	7500 Series PA Tuning 2	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	7500 Series PA Tuning 2	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: 7500 Series PA Tuning 1	Adverse symptoms may include the following: stomach pains
	7500 Series PA Tuning 2	Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

General	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: 7500 Series PA Tuning 1 7500 Series PA Tuning 2	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
7500 Series PA Tuning 1					
7500 Series PA Tuning 1	N/A	N/A	N/A	53.0	32.2
nitric acid	N/A	N/A	N/A	2.65	1.61125
Cadmium	225	N/A	N/A	N/A	0.05
7500 Series PA Tuning 2					
7500 Series PA Tuning 2	N/A	N/A	15620.0	10.0	161.1
Hydrochloric acid	N/A	N/A	1562	1.038	N/A
nitric acid	N/A	N/A	N/A	2.65	1.61125

Section 11. Toxicological information

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
7500 Series PA Tuning 1 nitric acid	Acute LC50 180000 µg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours
Cadmium	Acute EC50 0.095 mg/l Marine water Acute EC50 200 µg/l Fresh water Acute EC50 13.5 µg/l Fresh water	Algae - <i>Ulva pertusa</i> Aquatic plants - <i>Lemna minor</i> Daphnia - <i>Daphnia magna</i> - Neonate	96 hours 4 days 48 hours
	Acute LC50 0.072 µg/l Marine water Acute LC50 1 µg/l Fresh water	Crustaceans - <i>Amphipoda</i> - Adult Fish - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 96 hours
	Chronic NOEC 2 µg/l Fresh water	Algae - <i>Parachlorella kessleri</i> - Exponential growth phase	72 hours
	Chronic NOEC 0.02 µg/l Fresh water	Fish - <i>Cyprinus carpio</i>	4 weeks
7500 Series PA Tuning 2 Hydrochloric acid	Acute LC50 240000 µg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours
	Acute LC50 282 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours
nitric acid	Acute LC50 180000 µg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
7500 Series PA Tuning 1 nitric acid	-	-	Readily
7500 Series PA Tuning 2 nitric acid	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
7500 Series PA Tuning 1 nitric acid	-0.21	-	Low
7500 Series PA Tuning 2 nitric acid	-0.21	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods








Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3264	UN3264	UN3264	UN3264	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n. o.s. (Hydrochloric acid, nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (Hydrochloric acid, nitric acid)	LIQUIDO CORROSIVO, ACIDO, INORGANICO, N. E.P. (Hydrochloric acid, nitric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (Hydrochloric acid, nitric acid)	Corrosive liquid, acidic, inorganic, n. o.s. (Hydrochloric acid, nitric acid)
Transport hazard class(es)	8 	8  	8 	8  	8 
Packing group	III	III	III	III	III
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Section 14. Transport information

- DOT Classification** : **Reportable quantity** 33333.3 lbs / 15133.3 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
Limited quantity Yes.
Packaging instruction Exceptions: 154. Non-bulk: 203. Bulk: 241.
Quantity limitation Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L.
Special provisions IB3, T7, TP1, TP28
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.
Explosive Limit and Limited Quantity Index 5
Passenger Carrying Road or Rail Index 5
Special provisions 16
- Mexico Classification** : **Special provisions** 223, 274
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-A, S-B
Special provisions 223, 274
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852.
Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.
Special provisions A3, A803
- Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- Transport in bulk according to IMO instruments** : Not available.

Section 15. Regulatory information

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

- U.S. Federal regulations** : **TSCA 8(a) PAIR:** Indium
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Commerce control list precursor: Hydrogen fluoride
 Clean Water Act (CWA) 307: Arsenic; Cadmium; Beryllium; Zinc; Nickel; Lead; Antimony; Chromium; Copper; Thallium nitrate
 Clean Water Act (CWA) 311: Hydrochloric acid; nitric acid; Hydrogen fluoride; Sodium
 Clean Air Act (CAA) 112 regulated toxic substances: Hydrochloric acid; nitric acid
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
7500 Series PA Tuning 1 nitric acid	≤10	Yes.	1000	85.7	1000	85.7
7500 Series PA Tuning 2 Hydrochloric acid	≥10 - ≤25	Yes.	500	-	5000	-
nitric acid	≤3	Yes.	1000	85.7	1000	85.7
Hydrogen fluoride	≤0.3	Yes.	100	-	100	-

SARA 304 RQ : 33333.3 lbs / 15133.3 kg

SARA 311/312

Classification : **7500 Series PA Tuning 1** CORROSIVE TO METALS - Category 1
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
HNOC - Corrosive to digestive tract
HNOC - Corrosive to respiratory tract
7500 Series PA Tuning 2 CORROSIVE TO METALS - Category 1
ACUTE TOXICITY (inhalation) - Category 3
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
HNOC - Corrosive to digestive tract
HNOC - Corrosive to respiratory tract

Composition/information on ingredients

Name	%	Classification
7500 Series PA Tuning 1 nitric acid	≤10	OXIDIZING LIQUIDS - Category 3 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract
7500 Series PA Tuning 2 Hydrochloric acid	≥10 - ≤25	ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Corrosive to digestive tract
nitric acid	≤3	OXIDIZING LIQUIDS - Category 3 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	7500 Series PA Tuning 1 nitric acid	7697-37-2	≤10
	Lead	7439-92-1	<0.01
	7500 Series PA Tuning 2 Hydrochloric acid	7647-01-0	≥10 - ≤25
	nitric acid	7697-37-2	≤3

Section 15. Regulatory information

Supplier notification	7500 Series PA Tuning 1 nitric acid Lead	7697-37-2 7439-92-1	≤10 <0.01
	7500 Series PA Tuning 2 Hydrochloric acid nitric acid	7647-01-0 7697-37-2	≥10 - ≤25 ≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: HYDROGEN CHLORIDE; NITRIC ACID
- New York** : The following components are listed: Hydrochloric acid; Nitric acid
- New Jersey** : The following components are listed: HYDROGEN CHLORIDE; NITRIC ACID
- Pennsylvania** : The following components are listed: HYDROCHLORIC ACID; NITRIC ACID

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including cadmium and Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Arsenic, Beryllium, Nickel, Radionuclides, Radionuclides and Cobalt metal powder, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
7500 Series PA Tuning 1 Arsenic cadmium Beryllium Nickel Lead Radionuclides Radionuclides Cobalt metal powder	Yes. Yes. Yes. - Yes. - - -	- Yes. - - Yes. - - -

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Japan** : **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): Not determined.

Section 15. Regulatory information

New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: <input checked="" type="checkbox"/> All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: <input checked="" type="checkbox"/> Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
7500 Series PA Tuning 1 CORROSIVE TO METALS - Category 1 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	Expert judgment On basis of test data On basis of test data Calculation method
7500 Series PA Tuning 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1	Expert judgment Calculation method On basis of test data On basis of test data

History

Date of issue/Date of revision	: 05/09/2024
Date of previous issue	: 06/28/2021
Version	: 7

Key to abbreviations

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: N/A = Not available
: UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.