Printing date 07/24/2024

1 Identification

Reviewed on 07/24/2024

(Contd. on page 2)

US

· Product identifier • Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution • Article number: SAY005 · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 **2** Hazard(s) identification · Classification of the substance or mixture GHS08 Health hazard Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS07 Skin Irritation 2 H315 Causes skin irritation. H319 Causes serious eye irritation. Eve Irritation 2A · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 GHS08 · Signal word Warning · Hazard-determining components of labeling: Hydrochloric Acid · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray.

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(Contd. of page 1)

Wash thoroughly		
	loves / eye protection / face protection. vith plenty of water.	
	(see on this label).	
	cautiously with water for several minutes. Remove contact lenses, if pro-	esent and easy to do.
<i>Continue rinsing.</i>	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
	e/attention if you feel unwell.	
	ated clothing and wash it before reuse.	
v	ccurs: Get medical advice/attention.	
	rsists: Get medical advice/attention. ts/container in accordance with local/regional/national/international regui	lations
Classification syst		unons.
NFPA ratings (sc		
Нес	alth = 2	
	e = 0	
Z O Rea	activity = 0	
HMIS-ratings (sc	ale 0 - 4)	
HEALTH *2 He	alth = *2	
	re = 0	
	activity = 0	
Other hazards Results of PBT an PBT: Not applica vPvB: Not applica		
Results of PBT an PBT: Not applica vPvB: Not applica Composition/in	ble. ible. iformation on ingredients	
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charact	ble. ible. <mark>iformation on ingredients</mark> erization: Mixtures	
Results of PBT an PBT: Not applica vPvB: Not applica Composition/in Chemical charact Description: Mixt	ble. able. a <mark>formation on ingredients</mark> f erization: Mixtures ure of the substances listed below with nonhazardous additions.	
Results of PBT an PBT: Not applica vPvB: Not applica Composition/in Chemical charact Description: Mixt Dangerous compo	ble. ble. Iformation on ingredients rerization: Mixtures ure of the substances listed below with nonhazardous additions. onents:	2 343%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition of the	ble. ble. ble. Iformation on ingredients erization: Mixtures ure of the substances listed below with nonhazardous additions. onents: Hydrochloric Acid	2.343%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition CAS: 7697-37-2	ble. ble. Iformation on ingredients verization: Mixtures ure of the substances listed below with nonhazardous additions. onents: Hydrochloric Acid Nitric Acid	2.343% 0.382%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition of the	ble. ble.	
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition CAS: 7647-01-0 CAS: 7697-37-2 Table of Nonhaza CAS: 7732-18-5	ble. ble.	0.382%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition CAS: 7647-01-0 CAS: 7697-37-2 Table of Nonhaza CAS: 7732-18-5	ble. ble.	0.382% 96.476%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition (1) CAS: 7647-01-0 [1] CAS: 7697-37-2 [1] Table of Nonhazation CAS: 7732-18-5 CAS: 12007-60-2 CAS: 87-69-4	ble. ble.	0.382% 96.476% 0.36% 0.248%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical character Description: Mixter Dangerous composition CAS: 7647-01-0 [CAS: 7697-37-2] Table of Nonhazer CAS: 7732-18-5 CAS: 12007-60-2 CAS: 87-69-4 CAS: 7789-24-4	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04%
Results of PBT an PBT: Not application vPvB: Not application Composition/in Chemical charact Description: Mixt Dangerous compo CAS: 7647-01-0 CAS: 7697-37-2 I Table of Nonhaza CAS: 7732-18-5 CAS: 12007-60-2 CAS: 87-69-4 CAS: 7789-24-4 CAS: 7784-27-2	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035%
Results of PBT an PBT: Not application vPvB: Not application VPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition: Mixtion CAS: 7647-01-0 CAS: 7697-37-2 CAS: 7732-18-5 CAS: 12007-60-2 CAS: 7789-24-4 CAS: 7784-27-2 CAS: 13446-18-9	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035% 0.026%
Results of PBT an PBT: Not application vPvB: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixt Dangerous composition CAS: 7647-01-0 CAS: 7697-37-2 Table of Nonhaza CAS: 7732-18-5 CAS: 12007-60-2 CAS: 7789-24-4 CAS: 7784-27-2 CAS: 13446-18-9 CAS: 7782-61-8	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035% 0.026% 0.018%
Results of PBT an PBT: Not application vPvB: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition CAS: 7647-01-0 CAS: 7697-37-2 Image: CAS: 7732-18-5 CAS: 7782-61-8 CAS: 7782-61-8 CAS: 7782-61-8 CAS: 16919-19-0	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035% 0.026% 0.018% 0.016%
Results of PBT an PBT: Not application vPvB: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition: Mixtion CAS: 7647-01-0 CAS: 7697-37-2 CAS: 7732-18-5 CAS: 12007-60-2 CAS: 7784-27-2 CAS: 7784-27-2 CAS: 7782-61-8 CAS: 16919-19-0 CAS: 7722-76-1	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035% 0.026% 0.018% 0.016% 0.009%
Results of PBT an PBT: Not application vPvB: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixt Dangerous composition CAS: 7647-01-0 I CAS: 7697-37-2 I Table of Nonhaza CAS: 7732-18-5 CAS: 12007-60-2 CAS: 87-69-4 CAS: 7789-24-4 CAS: 7784-27-2 CAS: 13446-18-9 CAS: 13446-18-9 CAS: 16919-19-0 CAS: 7722-76-1 CAS: 19004-19-4	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035% 0.026% 0.018% 0.016% 0.009%
Results of PBT an PBT: Not application vPvB: Not application vPvB: Not application Composition/in Chemical charaction Description: Mixtion Dangerous composition: Mixtion CAS: 7647-01-0 CAS: 7697-37-2 CAS: 7732-18-5 CAS: 12007-60-2 CAS: 7784-27-2 CAS: 7784-27-2 CAS: 7782-61-8 CAS: 16919-19-0 CAS: 7722-76-1	ble. ble.	0.382% 96.476% 0.36% 0.248% 0.04% 0.035% 0.026% 0.018% 0.016% 0.009%

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

		(Contd. of page 2)
CAS: 471-34-1	Calcium Carbonate	0.006%
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.004%
CAS: 10099-74-8	Lead Nitrate	0.004%
CAS: 7440-02-0	Nickel Metal	0.003%
CAS: 7440-66-6	Zinc Metal	0.003%
CAS: 7440-38-2	arsenic	0.002%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · 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.
- 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.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 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.

· Protective Action Criteria for Chemicals

• PAC-1:

CAS: 7647-01-0 Hydrochloric Acid

1.8 ppm

(Contd. on page 4)

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

	Nitric Acid	(Contd. of page 0.16 ppm
CAS: 12007-60-2	Lithium Tetraborate, Reagent	4.3 mg/m ³
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m ³
CAS: 7789-24-4	Lithium Fluoride	10 mg/m ³
CAS: 7784-27-2	Aluminum Nitrate	83 mg/m ³
CAS: 13446-18-9	Magnesium Nitrate	16 mg/m ³
CAS: 7782-61-8	Ferric Nitrate	22 mg/m ³
CAS: 16919-19-0	Ammonium hexafluorosilicate	12 mg/m ³
CAS: 7722-76-1	Ammonium Phosphate Monobasic	17 mg/m ³
CAS: 19004-19-4	Cupric Nitrate Hydrate	42 mg/m ³
CAS: 7631-99-4	Sodium Nitrate	4.1 mg/m ³
CAS: 7757-79-1	Potassium Nitrate	9 mg/m ³
CAS: 471-34-1	Calcium Carbonate	45 mg/m ³
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.64 mg/m
CAS: 10099-74-8	Lead Nitrate	0.24 mg/m
CAS: 7440-02-0	Nickel Metal	4.5 mg/m ³
CAS: 7440-66-6	Zinc Metal	6 mg/m ³
CAS: 7440-38-2	arsenic	1.5 mg/m ³
PAC-2:		t
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 12007-60-2	Lithium Tetraborate, Reagent	47 mg/m ³
CAS: 87-69-4	L-Tartaric Acid	17 mg/m ³
CAS: 7789-24-4	Lithium Fluoride	110 mg/m
CAS: 7784-27-2	Aluminum Nitrate	920 mg/m
CAS: 13446-18-9	Magnesium Nitrate	180 mg/m
CAS: 7782-61-8	Ferric Nitrate	110 mg/m
CAS: 16919-19-0	Ammonium hexafluorosilicate	130 mg/m
CAS: 7722-76-1	Ammonium Phosphate Monobasic	190 mg/m
CAS: 19004-19-4	Cupric Nitrate Hydrate	150 mg/m
CAS: 7631-99-4	Sodium Nitrate	45 mg/m ³
CAS: 7757-79-1	Potassium Nitrate	100 mg/m
CAS: 471-34-1	Calcium Carbonate	210 mg/m
CAS: 1314-62-1	Vanadium Pentoxide Reagent	7 mg/m ³
CAS: 10099-74-8	Lead Nitrate	180 mg/m
CAS: 7440-02-0	Nickel Metal	50 mg/m ³
CAS: 7440-66-6	Zinc Metal	40 mg/m3
CAS: 7440-38-2	arsenic	17 mg/m ³
PAC-3:		
	Hydrochloric Acid	100 ppm
	Nitric Acid	92 ppm
	Lithium Tetraborate, Reagent	280 mg/m ³

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

	(Contd. of page 4)
CAS: 87-69-4 L-Tartaric Acid	100 mg/m ³
CAS: 7789-24-4 Lithium Fluoride	680 mg/m ³
CAS: 7784-27-2 Aluminum Nitrate	5,500 mg/m ³
CAS: 13446-18-9 Magnesium Nitrate	1,100 mg/m ³
CAS: 7782-61-8 Ferric Nitrate	640 mg/m ³
CAS: 16919-19-0 Ammonium hexafluorosilicate	780 mg/m ³
CAS: 7722-76-1 Ammonium Phosphate Monobasic	1,100 mg/m ³
CAS: 19004-19-4 Cupric Nitrate Hydrate	240 mg/m ³
CAS: 7631-99-4 Sodium Nitrate	270 mg/m ³
CAS: 7757-79-1 Potassium Nitrate	600 mg/m ³
CAS: 471-34-1 Calcium Carbonate	1,300 mg/m ³
CAS: 1314-62-1 Vanadium Pentoxide Reagent	70 mg/m ³
CAS: 10099-74-8 Lead Nitrate	1,100 mg/m ³
CAS: 7440-02-0 Nickel Metal	99 mg/m ³
CAS: 7440-66-6 Zinc Metal	240 mg/m3
CAS: 7440-38-2 arsenic	100 mg/m ³

7 Handling and storage

· Handling:

- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. 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 section 7.
- · Control parameters

· Components with limit values that	require monitoring at the workplace:
CAS: 7647-01-0 Hydrochloric Acid	
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m ³
PEL	Ceiling limit value: 7 mg/m ³ , 5 ppm
REL	Ceiling limit value: 7 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 2 ppm
	A4
	(Contd. on page 6)

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

		(Contd. of page 5)
CAS: 7697-37-2 Nitric	Acid	
PEL	Long-term value: 5 mg/m ³ , 2 ppm	
REL	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5 mg/m ³ , 2 ppm	
TLV	Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4	

• 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. Store protective clothing separately. 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 • 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

· Body protection: Protective work clothing

Information on basic phy	vsical and chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Colorless	

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

		(Contd. of page 6
· Odor:	Odorless	
• Odor threshold:	Not determined.	
· pH-value:	Not determined.	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	0 °C (32 °F) 100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F): · Relative density · Vapor density · Evaporation rate	1.00597 g/cm ³ (8.39482 lbs/gal) Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Water: VOC content:	96.5 % 0.00 % 0.0 g/l / 0.00 lb/gal	
Solids content:	0.7 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

- 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.

(Contd. on page 8)

[·] Chemical stability

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(Contd. of page 7)

11 Toxicological information · Information on toxicological effects · Acute toxicity: · LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Inhalative LC50/4h 785 mg/l · Primarv irritant effect: • on the skin: Irritant to skin and mucous membranes. • on the eye: Irritating effect. · Sensitization: No sensitizing effects known. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant · Carcinogenic categories · IARC (International Agency for Research on Cancer) CAS: 7789-24-4 Lithium Fluoride 3 CAS: 1314-62-1 Vanadium Pentoxide Reagent 2BCAS: 10099-74-8 Lead Nitrate 2ACAS: 7440-02-0 Nickel Metal 2BCAS: 7440-38-2 1 arsenic · NTP (National Toxicology Program) CAS: 10099-74-8 Lead Nitrate R CAS: 7440-02-0 Nickel Metal R CAS: 7440-38-2 arsenic K · OSHA-Ca (Occupational Safety & Health Administration) CAS: 7440-38-2 arsenic

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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

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(Contd. of page 8)

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.

UN-Number	
DOT, IMDG, IATA	Not regulated
UN proper shipping name DOT, IMDG, IATA	Not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	Not regulated
Packing group	
DOT, IMDG, IATA	Not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II o	f
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Not regulated

15 Regulatory information

· Sara

· Section 355 (extr	emely hazardous substances):
CAS: 7697-37-2	Nitric Acid
CAS: 1314-62-1	Vanadium Pentoxide Reagent
· Section 313 (Spe	cific toxic chemical listings):
CAS: 7697-37-2	Nitric Acid
CAS: 7784-27-2	Aluminum Nitrate
CAS: 13446-18-9	Magnesium Nitrate
CAS: 7782-61-8	Ferric Nitrate
CAS: 7757-79-1	Potassium Nitrate
CAS: 1314-62-1	Vanadium Pentoxide Reagent
CAS: 10099-74-8	Lead Nitrate
CAS: 7440-02-0	Nickel Metal
	(Contd. on page 10)

[•] Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

CAS: 7440-66-6	Zinc Metal	(Contd. of page
CAS: 7440-38-2	arsenic	
	userie (astroited astroited astroite	
Water	stances Control Act):	ACTIV
Hydrochloric Aci	4	ACTIV
Nitric Acid	1	ACTIV
Lithium Tetrabord	ate Paggant	ACTIV
Linium Terrabora L-Tartaric Acid	ne, Keugeni	ACTIV
Lithium Fluoride		ACTIV
Ammonium hexaf	luorosilizata	ACTIV
Ammonium nexuji Ammonium Phosp		ACTIV
Sodium Nitrate		ACTIV
Potassium Nitrate		ACTIV
Calcium Carbona		
		ACTIV
Vanadium Pentox	ide Keagent	ACTIV
Lead Nitrate		ACTIV
Nickel Metal		ACTIV
Zinc Metal		ACTIV
arsenic		ACTIV
Hazardous Air Pe		
	Hydrochloric Acid	
CAS: 10099-74-8	Lead Nitrate	
Proposition 65		
Chemicals known		
	Vanadium Pentoxide Reagent	
CAS: 10099-74-8		
	Nickel Metal	
CAS: 7440-38-2	arsenic	
	to cause reproductive toxicity for females:	
None of the ingre	dients is listed.	
Chemicals known	to cause reproductive toxicity for males:	
None of the ingre	dients is listed.	
Chemicals known	ı to cause developmental toxicity:	
None of the ingre	dients is listed.	
Carcinogenic cat	egories	
	ntal Protection Agency)	
	Lithium Tetraborate, Reagent	I (ora
CAS: 10099-74-8	Lead Nitrate	B2
CAS: 7440-66-6	Zinc Metal	D, I, I
	arsenic	A
CAS: 7440-38-2		
CAS: 7440-38-2		

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Trade name: 25.0 mg/L 14 component Mixed Metal Working Solution

CAR. 1214 62 1	Very dimensional de Democrat	(Contd. of page
	Vanadium Pentoxide Reagent	A
CAS: 10099-74-8		F
CAS: 7440-02-0		F
CAS: 7440-38-2	arsenic	F
NIOSH-Ca (Nat	ional Institute for Occupational Safety and Health)	
CAS: 7440-02-0	Nickel Metal	
CAS: 7440-38-2	arsenic	
Hazard pictogram		
Signal word War	-	
Hazard-determin Hydrochloric Act	ning components of labeling: id	
Hazard statemen		
Causes skin irrite	ition.	
Causes serious e	ye irritation.	
May cause dama	ge to organs through prolonged or repeated exposure.	
Precautionary st		
	ust/fume/gas/mist/vapors/spray.	
Wash thoroughly		
	gloves / eye protection / face protection.	
	with plenty of water.	
	at (see on this label).	
If in eyes: Rinse Continue rinsing	cautiously with water for several minutes. Remove contact lenses, i	f present and easy to
Get medical advi	ce/attention if you feel unwell.	
Take off contami	nated clothing and wash it before reuse.	
If skin irritation of	occurs: Get medical advice/attention.	
If eye irritation p	ersists: Get medical advice/attention.	
D'an a farmer	nts/container in accordance with local/regional/national/international r	egulations.
Dispose of conter		

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:

Date of Preparation / Last Revision:

• Date of preparation / last revision Revision 1.2 07/24/2024: Reviewed SDS for accuracy. MH/STN 07/24/2024 / 1.0

• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

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[–] US

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	(Contd. of page 11)
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	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated expos	ure) – Category 2
• * Data compared to the previous version altered.	
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