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1 Identification

· Product identifier

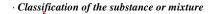
- · Product Name: <u>Interferents A (For CLP-M)</u>
- · Part Name: CL-INT-A1
- · Application of the substance / the mixture For Laboratory Use Only
- · Uses advised against Not for Human or Animal Use
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Spex CertiPrep, LLC.
 203 Norcross Ave, Metuchen, NJ 08840 USA

NJ 08840 USA 732-549-7144 USMet-CRMSales@antylia.com

• Information department: product safety department • Emergency telephone number:

Emergency Phone Number (24 hours) CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification



GHS05 Corrosion

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

- Eye Damage 1 H318 Causes 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

H314 Causes severe skin burns and eye damage.

· Precautionary statements

- P260 Do not breathe dusts or mists.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:





· HMIS-ratings (scale 0 - 4)

HEALTH	3	Health = 3
		Fire = 0
REACTIVITY	0	Reactivity = 0

Product Name: Interferents A (For CLP-M)

· 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.

-	components:	
7697-37-2	? nitric acid	5.0%
12125-02-9	chloride from ammonium chloride	2.1215%
· Chemical i	dentification of the substance/preparation	
7732-18-5	water, distilled, conductivity or of similar purity	91.3697%
7440-70-2	calcium	0.3%
7439-89-6	iron	0.25%
7440-23-5	sodium	0.25%
7440-44-0	carbon	0.2%
7429-90-5	aluminium	0.1%
7439-95-4	magnesium	0.1%
7440-09-7	potassium	0.1%
7704-34-9	sulfur	0.1%
7723-14-0	phosphorus	0.1%
7664-39-3	hydrofluoric acid	0.0048%
7439-98-7	molybdenum	0.002%
7440-32-6	titanium	0.002%

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4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not give anything to eat or drink Do not induce vomitting
- · 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.
- 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).
- Use neutralizing agent.
- 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.

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· PAC-1:	ction Criteria for Chemicais	
7697-37-2	nitric acid	0.16 ppm
	chloride from ammonium chloride	20 mg/m ³
7439-89-6		3.2 mg/m ³
7440-23-5		13 mg/m ³
7440-44-0		6 mg/m ³
	magnesium	18 mg/m ³
7440-09-7		2.3 mg/m ³
7723-14-0	phosphorus	0.27 mg/m ³
7664-39-3	hydrofluoric acid	1.0 ppm
7439-98-7	molybdenum	30 mg/m ³
7440-32-6	titanium	30 mg/m ³
· PAC-2:		
7697-37-2	nitric acid	24 ppm
12125-02-9	chloride from ammonium chloride	54 mg/m ³
7439-89-6	iron	35 mg/m ³
7440-23-5	sodium	140 mg/m ²
7440-44-0	carbon	330 mg/m ²
7439-95-4	magnesium	200 mg/m ³
7440-09-7	potassium	25 mg/m ³
7723-14-0	phosphorus	3 mg/m ³
7664-39-3	hydrofluoric acid	24 ppm
	molybdenum	330 mg/m ²
7440-32-6	titanium	330 mg/m ³
· PAC-3:		
7697-37-2	nitric acid	92 ppm
12125-02-9	chloride from ammonium chloride	330 mg/m ³
7439-89-6	iron	150 mg/m ³
7440-23-5	sodium	870 mg/m ³
7440-44-0	carbon	2,000 mg/m
	magnesium	1,200 mg/m ²
7440-09-7	*	150 mg/m ³
	phosphorus	18 mg/m ³
	hydrofluoric acid	44 ppm
	molybdenum	2,000 mg/m ²
7440-32-6	titanium	2,000 mg/m

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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.
- \cdot 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:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
- At this time, the remaining constituent has no known exposure limits.

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12125-02-9 chloride from ammonium chloride

- REL Short-term value: 20 mg/m³
- Long-term value: 10 mg/m³
- TLV Short-term value: 20 mg/m³ Long-term value: 10 mg/m³

· 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.
- Respiratory protection:

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.

Safety Data Sheet acc. to OSHA HCS

· 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

9 Physical and chemical properties

· Information on basic physical and o	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
· Odour Threshold:	Not applicable.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	83 °C (181.4 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
• Decomposition temperature:	Not applicable.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F)	1.06833 g/cm ³ (8.91521 lbs/gal)
· Relative density	Not applicable.
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· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octano	l/water): Not applicable.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Water:	91.4 %	
VOC content:	0.00 %	
Solids content:	3.6 %	
• Other information	No further relevant information available.	

Safety Data Sheet acc. to OSHA HCS

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:

7697-37-2 nitric acid

Inhalative LC50/4 h 2.65 mg/l (ATE)

- · Primary irritant effect:
- on the skin: 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 Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.



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- Danger to drinking water if even small quantities leak into the ground.
- · 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.

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

14 Transport information

Transport information	
· UN-Number	
· DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
• Transport hazard class(es)	
DOT	
CORROSIVE 8	
· Class	8 Corrosive substances
· Label	8
ADR, IMDG, IATA	
· Class	8 Corrosive substances
· Label	8
· Packing group · DOT, ADR, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
EMS Number:	F-A, S-B
Segregation groups	(SGG1) Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
· Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
Transport in bulk according to Annex II of MARPOL73/78 and t	he IBC Code Not applicable.
Transport/Additional information:	
· ADR	
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
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UN	''Model	Regulation"	:
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UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. · Sara · Section 313 (Specific toxic chemical listings): 7697-37-2 nitric acid 7429-90-5 aluminium 7704-34-9 sulfur 7723-14-0 phosphorus 7664-39-3 hydrofluoric acid · TSCA (Toxic Substances Control Act): All components have the value ACTIVE. · Hazardous Air Pollutants 7723-14-0 phosphorus 7664-39-3 hydrofluoric acid · Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Carcinogenic categories · EPA (Environmental Protection Agency) None of the ingredients is listed. • TLV (Threshold Limit Value) 7429-90-5 aluminium A47439-98-7 molybdenum AЗ · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

· Hazard pictograms



· Signal word Danger

nitric acid	ng components of labeling:
 Hazard statements 	
H314 Causes seve	re skin burns and eye damage.
Precautionary stat	ements
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P33	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	I f on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.



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	Dispose of contents/container in accordance with local/regional/national/international regulations. essment: A Chemical Safety Assessment has not been carried out.	(Contd. of page
Chemical safety ass	ssment. A Chemical Sufery Assessment has not been carried but.	
Other information		
This information is legally valid contract	based on our present knowledge. However, this shall not constitute a guarantee for any specific product features tual relationship.	and shall not establis
Department issuing	SDS: product safety department	
Contact:		
Spex CertiPrep, LLC		
1-732-549-7144		
	/ last revision 10/13/2023	
Abbreviations and a		
	sport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) ime Code for Dangerous Goods	
DOT: US Department of Ti		
IATA: International Air Tra		
	ry of Existing Commercial Chemical Substances	
	Notified Chemical Substances	
	ervice (division of the American Chemical Society)	
NFPA: National Fire Prote	ction Association (USA) s Identification System (USA)	
VOC: Volatile Organic Con		
LC50: Lethal concentration		
LD50: Lethal dose, 50 perc		
PBT: Persistent, Bioaccum		
vPvB: very Persistent and v		
NIOSH: National Institute j		
OSHA: Occupational Safet TLV: Threshold Limit Valu		
PEL: Permissible Exposure		
REL: Recommended Expos		
	rosion/irritation – Category 1B	
	damage/eye irritation – Category 1	

Safety Data Sheet acc. to OSHA HCS