

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/23/2019

Reviewed on 05/23/2019

1 Identification

- **Product identifier**
- **Product Name:** Interference Check Standard, 18
- **Part Number:**
INTER18-100
INTER18-100N
INTER18-500
INTER18-500N
- **Application of the substance / the mixture** *Certified Reference Material*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SPEX CertiPrep, LLC.
203 Norcross Ave, Metuchen,
NJ 08840 USA
- **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

- **Classification of the substance or mixture**



GHS08 Health hazard

- Carc. 1A H350 May cause cancer.
- Repr. 1A H360 May damage fertility or the unborn child.



GHS05 Corrosion

- Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.

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



GHS05



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
nitric acid
arsenic
Lead from Lead Oxide
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
- **Precautionary statements**
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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- Classification system:
- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)

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

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

7697-37-2	nitric acid	5.0%
7440-09-7	potassium	2.0%
7439-92-1	Lead from Lead Oxide	0.1%
7440-38-2	arsenic	0.1%

· Chemical identification of the substance/preparation

7440-28-0	Thallium from Thallium nitrate	0.1%
7782-49-2	selenium	0.05%
7440-43-9	cadmium (non-pyrophoric)	0.03%
7440-02-0	nickel	0.03%
7440-50-8	copper	0.03%
7440-22-4	silver	0.03%
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	0.03%
7440-62-2	Vanadium from Ammonium trioxovanadate	0.03%
7440-66-6	zinc powder -zinc dust (stabilized)	0.03%
7440-39-3	Barium from Barium carbonate	0.03%
7440-48-4	cobalt	0.03%
7439-96-5	manganese	0.02%
7440-41-7	Beryllium from Beryllium Acetate	0.01%
7732-18-5	water, distilled, conductivity or of similar purity	92.35%

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
 - Drink copious amounts of water and provide fresh air. Immediately call a doctor.
 - Do not give anything to eat or drink - Do not induce vomiting
- 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.

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- **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 item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

7697-37-2	nitric acid	0.16 ppm
7440-09-7	potassium	2.3 mg/m ³
7439-92-1	Lead from Lead Oxide	0.15 mg/m ³
7440-28-0	Thallium from Thallium nitrate	0.06 mg/m ³
7440-38-2	arsenic	1.5 mg/m ³
7782-49-2	selenium	0.6 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	0.10 mg/m ³
7440-02-0	nickel	4.5 mg/m ³
7440-50-8	copper	3 mg/m ³
7440-22-4	silver	0.3 mg/m ³
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	1.5 mg/m ³
7440-62-2	Vanadium from Ammonium trioxovanadate	3 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	6 mg/m ³
7440-39-3	Barium from Barium carbonate	1.5 mg/m ³
7440-48-4	cobalt	0.18 mg/m ³
7439-96-5	manganese	3 mg/m ³
7440-41-7	Beryllium from Beryllium Acetate	0.0023 mg/m ³

· **PAC-2:**

7697-37-2	nitric acid	24 ppm
7440-09-7	potassium	25 mg/m ³
7439-92-1	Lead from Lead Oxide	120 mg/m ³
7440-28-0	Thallium from Thallium nitrate	3.3 mg/m ³
7440-38-2	arsenic	17 mg/m ³
7782-49-2	selenium	6.6 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	0.76 mg/m ³
7440-02-0	nickel	50 mg/m ³
7440-50-8	copper	33 mg/m ³
7440-22-4	silver	170 mg/m ³
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	17 mg/m ³
7440-62-2	Vanadium from Ammonium trioxovanadate	5.8 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	21 mg/m ³
7440-39-3	Barium from Barium carbonate	180 mg/m ³
7440-48-4	cobalt	2 mg/m ³
7439-96-5	manganese	5 mg/m ³
7440-41-7	Beryllium from Beryllium Acetate	0.025 mg/m ³

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· PAC-3:		
7697-37-2	nitric acid	92 ppm
7440-09-7	potassium	150 mg/m ³
7439-92-1	Lead from Lead Oxide	700 mg/m ³
7440-28-0	Thallium from Thallium nitrate	20 mg/m ³
7440-38-2	arsenic	100 mg/m ³
7782-49-2	selenium	40 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	4.7 mg/m ³
7440-02-0	nickel	99 mg/m ³
7440-50-8	copper	200 mg/m ³
7440-22-4	silver	990 mg/m ³
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	99 mg/m ³
7440-62-2	Vanadium from Ammonium trioxovanadate	35 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	120 mg/m ³
7440-39-3	Barium from Barium carbonate	1,100 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7439-96-5	manganese	1,800 mg/m ³
7440-41-7	Beryllium from Beryllium Acetate	0.1 mg/m ³

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the remaining constituent has no known exposure limits.

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: 10 mg/m ³ , 4 ppm Long-term value: 5.2 mg/m ³ , 2 ppm
7439-92-1 Lead from Lead Oxide	
PEL	Long-term value: 0.05* mg/m ³ *see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m ³ *8-hr TWA ;See PocketGuide App.C
TLV	Long-term value: 0.05* mg/m ³ *and inorganic compounds, as Pb; BEI
7440-38-2 arsenic	
PEL	Long-term value: 0.5* 0.01** mg/m ³ as As; *organic**inorg. compds.; 29 CFR 1910.1018

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REL	Ceiling limit value: 0.002 mg/m ³ as As; 15min; See Pocket Guide App. A
TLV	Long-term value: 0.01 mg/m ³ as As; BEI
· Ingredients with biological limit values:	
7439-92-1 Lead from Lead Oxide	
BEI	30 µg/100 ml Medium: blood Time: not critical Parameter: Lead
	10 µg/100 ml Medium: blood Time: not critical Parameter: Lead (women of child bearing potential)
7440-38-2 arsenic	
BEI	35 µg As/L Medium: urine Time: end of workweek Parameter: Inorganic arsenic plus methylated metabolites (background)

· **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.
- 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.

· **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 chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odour Threshold:	Not applicable.

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· pH-value at 20 °C (68 °F):	<2
· 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.
· Auto igniting:	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)	1.0698 g/cm ³ (8.92748 lbs/gal)
· Relative density	Not applicable.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not applicable.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Water:	92.4 %
VOC content:	0.00 %
Solids content:	2.6 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7440-28-0 Thallium from Thallium nitrate

Oral LD50 15 mg/kg (mouse)

· **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

Product is suspected to cause damage to fertility.

Product is suspected to cause birth defects.

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

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

7439-92-1	Lead from Lead Oxide	2B
7440-38-2	arsenic	1
7782-49-2	selenium	3
7440-43-9	cadmium (non-pyrophoric)	1
7440-02-0	nickel	2B
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	3
7440-48-4	cobalt	2B
7440-41-7	Beryllium from Beryllium Acetate	1

· **NTP (National Toxicology Program)**

7439-92-1	Lead from Lead Oxide	R
7440-38-2	arsenic	K
7440-43-9	cadmium (non-pyrophoric)	K
7440-02-0	nickel	R
7440-48-4	cobalt	R
7440-41-7	Beryllium from Beryllium Acetate	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

7440-38-2	arsenic	
7440-43-9	cadmium (non-pyrophoric)	

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.

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN3264

· **UN proper shipping name**

· **DOT**

Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid solution)

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· ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION)
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Segregation groups	Acids
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, III

15 Regulatory information

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

· Section 313 (Specific toxic chemical listings):	
7697-37-2	nitric acid
7439-92-1	Lead from Lead Oxide
7440-28-0	Thallium from Thallium nitrate
7440-38-2	arsenic
7782-49-2	selenium
7440-43-9	cadmium (non-pyrophoric)
7440-02-0	nickel
7440-50-8	copper
7440-22-4	silver
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate
7440-62-2	Vanadium from Ammonium trioxovanadate
7440-66-6	zinc powder -zinc dust (stabilized)
7440-39-3	Barium from Barium carbonate
7440-48-4	cobalt
7439-96-5	manganese
7440-41-7	Beryllium from Beryllium Acetate

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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

7439-92-1	Lead from Lead Oxide
7440-38-2	arsenic
7440-43-9	cadmium (non-pyrophoric)
7440-02-0	nickel
7440-48-4	cobalt
7440-41-7	Beryllium from Beryllium Acetate

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

7440-43-9	cadmium (non-pyrophoric)
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· **Chemicals known to cause developmental toxicity:**

7440-43-9	cadmium (non-pyrophoric)
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7439-92-1	Lead from Lead Oxide	B2
7440-38-2	arsenic	A
7782-49-2	selenium	D
7440-43-9	cadmium (non-pyrophoric)	B1
7440-50-8	copper	D
7440-22-4	silver	D
7440-66-6	zinc powder -zinc dust (stabilized)	D, I, II
7440-39-3	Barium from Barium carbonate	D, CBD(inh), NL(oral)
7439-96-5	manganese	D
7440-41-7	Beryllium from Beryllium Acetate	B1, K/L(inh), CBD(oral)

· **TLV (Threshold Limit Value established by ACGIH)**

7439-92-1	Lead from Lead Oxide	A3
7440-38-2	arsenic	A1
7440-43-9	cadmium (non-pyrophoric)	A2
7440-02-0	nickel	A5
7440-39-3	Barium from Barium carbonate	A4
7440-48-4	cobalt	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

7440-38-2	arsenic
7440-43-9	cadmium (non-pyrophoric)
7440-02-0	nickel

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

· **Hazard pictograms**



GHS05

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

nitric acid

arsenic

Lead from Lead Oxide

· **Hazard statements**

H314 Causes severe skin burns and eye damage.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

· **Precautionary statements**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

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

· **Department issuing SDS:** product safety department

· **Contact:**

SPEX CertiPrep, LLC.

1-732-549-7144

· **Date of preparation / last revision** 05/23/2019 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LCS0: 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

BEI: Biological Exposure Limit

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 1A: Carcinogenicity – Category 1A

Repr. 1A: Reproductive toxicity – Category 1A

US