

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** QCI-016, PEI-016
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute toxicity - inhalation 2 H330 Fatal if inhaled.



GHS05 Corrosion

Skin corrosion 1A

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**



GHS05



GHS06

- **Signal word** Danger
- **Hazard-determining components of labeling:**
nitric acid
- **Hazard statements**
Fatal if inhaled.
Causes severe skin burns and eye damage.
- **Precautionary statements**
Do not breathe dusts or mists.

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Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear eye protection / face protection.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

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

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment is urgent (see on this label).

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

· **Information pertaining to particular dangers for man and environment:**· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 3

Fire = 0

Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 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%
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· **Non-hazardous components**

7732-18-5	water, distilled, conductivity or of similar purity	≥80–≤100%
7429-90-5	aluminium	≥0–≤0.1%
7439-89-6	iron	≥0–≤0.1%
10022-31-8	barium nitrate	≥0–≤0.1%
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	≥0–≤0.1%

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7440-02-0	nickel	$\geq 0 - < 0.1\%$
7440-66-6	zinc powder -zinc dust (pyrophoric)	$\geq 0 - \leq 0.1\%$
7803-55-6	ammonium trioxovanadate	$\geq 0 - \leq 0.1\%$
7439-92-1	lead	$\geq 0 - < 0.03\%$
7440-22-4	silver	$\geq 0 - < 0.1\%$
7440-43-9	cadmium	$\geq 0 - < 0.1\%$
7440-47-3	chromium	$\geq 0 - < 0.1\%$
7440-48-4	cobalt	$\geq 0 - < 0.1\%$
7440-50-8	copper	$\geq 0 - \leq 0.1\%$
7782-49-2	selenium	$\geq 0 - \leq 0.1\%$
7440-36-0	antimony	$\geq 0 - \leq 0.1\%$
7440-38-2	arsenic	$\geq 0 - < 0.1\%$
7440-28-0	thallium	$\geq 0 - \leq 0.1\%$
7439-98-7	molybdenum	$\geq 0 - \leq 0.1\%$
10042-76-9	strontium nitrate	$\geq 0 - \leq 0.1\%$
19049-40-2	Beryllium acetate, basic	$\geq 0 - < 0.1\%$

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:**

Supply fresh air or oxygen; call for doctor.

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.

- **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.

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· 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.

· Protective Action Criteria for Chemicals

· PAC-1:		
7697-37-2	nitric acid	0.16 ppm
7439-89-6	iron	1.8 mg/m ³
10022-31-8	barium nitrate	2.9 mg/m ³
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	13 mg/m ³
7440-02-0	nickel	0.24 mg/m ³
7440-66-6	zinc powder -zinc dust (pyrophoric)	6 mg/m ³
7803-55-6	ammonium trioxovanadate	0.058 mg/m ³
7439-92-1	lead	0.15 mg/m ³
7440-22-4	silver	0.3 mg/m ³
7440-43-9	cadmium	0.10 mg/m ³
7440-47-3	chromium	1.5 mg/m ³
7440-48-4	cobalt	0.18 mg/m ³
7440-50-8	copper	3 mg/m ³
7782-49-2	selenium	0.60 mg/m ³
7440-36-0	antimony	1.5 mg/m ³
7440-38-2	arsenic	1.5 mg/m ³
7440-28-0	thallium	0.06 mg/m ³
7439-98-7	molybdenum	30 mg/m ³
10042-76-9	strontium nitrate	5.7 mg/m ³
· PAC-2:		
7697-37-2	nitric acid	24 ppm
7439-89-6	iron	20 mg/m ³
10022-31-8	barium nitrate	350 mg/m ³
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	22 mg/m ³
7440-02-0	nickel	50 mg/m ³
7440-66-6	zinc powder -zinc dust (pyrophoric)	40 mg/m ³
7803-55-6	ammonium trioxovanadate	0.64 mg/m ³
7439-92-1	lead	120 mg/m ³
7440-22-4	silver	3.3 mg/m ³
7440-43-9	cadmium	0.76 mg/m ³
7440-47-3	chromium	83 mg/m ³
7440-48-4	cobalt	2 mg/m ³
7440-50-8	copper	33 mg/m ³
7782-49-2	selenium	17 mg/m ³

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7440-36-0	antimony	13 mg/m ³
7440-38-2	arsenic	17 mg/m ³
7440-28-0	thallium	3.3 mg/m ³
7439-98-7	molybdenum	330 mg/m ³
10042-76-9	strontium nitrate	62 mg/m ³
· PAC-3:		
7697-37-2	nitric acid	92 ppm
7439-89-6	iron	120 mg/m ³
10022-31-8	barium nitrate	2,100 mg/m ³
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	740 mg/m ³
7440-02-0	nickel	99 mg/m ³
7440-66-6	zinc powder -zinc dust (pyrophoric)	240 mg/m ³
7803-55-6	ammonium trioxovanadate	12 mg/m ³
7439-92-1	lead	700 mg/m ³
7440-22-4	silver	20 mg/m ³
7440-43-9	cadmium	4.7 mg/m ³
7440-47-3	chromium	500 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7440-50-8	copper	200 mg/m ³
7782-49-2	selenium	100 mg/m ³
7440-36-0	antimony	80 mg/m ³
7440-38-2	arsenic	100 mg/m ³
7440-28-0	thallium	20 mg/m ³
7439-98-7	molybdenum	2,000 mg/m ³
10042-76-9	strontium nitrate	370 mg/m ³

· 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.

7 Handling and storage

· 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.

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* 8 Exposure controls/personal protection

· Control parameters

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

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

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Appropriate engineering controls No further data; see section 7.

· 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.

· 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

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* 9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Physical state	Liquid
· Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	83 °C (181.4 °F)
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Vapor pressure:	
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Water:	94–99 %
· VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
· Solids content:	0–0.3 %
· Change in condition	
· Evaporation rate	Not determined.

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.

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· **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:****ATE (Acute Toxicity Estimate)**

Inhalative | LC50/4 h | 1–5 mg/l

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

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Corrosive

Irritant

Very toxic

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

· **Interactive effects** No interactive effects between components are known.· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

7440-02-0	nickel	2B
7439-92-1	lead	2B
7440-43-9	cadmium	1
7440-47-3	chromium	3
7440-48-4	cobalt	2A
7782-49-2	selenium	3
7440-38-2	arsenic	1
19049-40-2	Beryllium acetate, basic	1

· **NTP (National Toxicology Program)**

7440-02-0	nickel	R
7439-92-1	lead	R
7440-43-9	cadmium	K
7440-48-4	cobalt	R
7440-38-2	arsenic	K
19049-40-2	Beryllium acetate, basic	K

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

7440-43-9	cadmium
7440-38-2	arsenic

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· **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects**
- **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.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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, IMDG, IATA** UN2922
- **UN proper shipping name**
- **DOT** Corrosive liquids, toxic, n.o.s. (Nitric acid)
- **IMDG** CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID)
- **IATA** Corrosive liquid, toxic, n.o.s. (NITRIC ACID)
- **Transport hazard class(es)**
- **DOT**
- 

- **Class** 8 Corrosive substances

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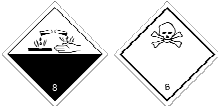
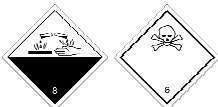
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· Label	8, 6.1
· IMDG	
	
· Class	8 Corrosive substances
· Label	8/6.1
· IATA	
	
· Class	8 Corrosive substances
· Label	8 (6.1)
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code):	86
· EMS Number:	F-A,S-B
· Segregation groups	(SGG1a) Strong acids
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· UN "Model Regulation":	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACID), 8 (6.1), II

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Sara**

· **Section 355 (extremely hazardous substances):**

7697-37-2 | nitric acid

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· Section 313 (Specific toxic chemical listings):		
7697-37-2	nitric acid	
7429-90-5	aluminium	
10022-31-8	barium nitrate	
7440-02-0	nickel	
7440-66-6	zinc powder -zinc dust (pyrophoric)	
7803-55-6	ammonium trioxovanadate	
7439-92-1	lead	
7440-22-4	silver	
7440-43-9	cadmium	
7440-47-3	chromium	
7440-48-4	cobalt	
7440-50-8	copper	
7782-49-2	selenium	
7440-36-0	antimony	
7440-38-2	arsenic	
7440-28-0	thallium	
10042-76-9	strontium nitrate	
19049-40-2	Beryllium acetate, basic	
· TSCA (Toxic Substances Control Act):		
7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
7697-37-2	nitric acid	ACTIVE
7429-90-5	aluminium	ACTIVE
7439-89-6	iron	ACTIVE
10022-31-8	barium nitrate	ACTIVE
7440-02-0	nickel	ACTIVE
7440-66-6	zinc powder -zinc dust (pyrophoric)	ACTIVE
7803-55-6	ammonium trioxovanadate	ACTIVE
7439-92-1	lead	ACTIVE
7440-22-4	silver	ACTIVE
7440-43-9	cadmium	ACTIVE
7440-47-3	chromium	ACTIVE
7440-48-4	cobalt	ACTIVE
7440-50-8	copper	ACTIVE
7782-49-2	selenium	ACTIVE
7440-36-0	antimony	ACTIVE
7440-38-2	arsenic	ACTIVE
7440-28-0	thallium	ACTIVE
7439-98-7	molybdenum	ACTIVE
10042-76-9	strontium nitrate	ACTIVE
· Hazardous Air Pollutants		
7439-92-1	lead	
7440-48-4	cobalt	

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· **Proposition 65**· **Chemicals known to cause cancer:**

7440-02-0	nickel
7439-92-1	lead
7440-43-9	cadmium
7440-48-4	cobalt
7440-38-2	arsenic
19049-40-2	Beryllium acetate, basic

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

7439-92-1	lead
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· **Chemicals known to cause reproductive toxicity for males:**

7439-92-1	lead
7440-43-9	cadmium

· **Chemicals known to cause developmental toxicity:**

7439-92-1	lead
7440-43-9	cadmium

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

10022-31-8	barium nitrate	D, CBD(inh), NL(oral)
7440-66-6	zinc powder -zinc dust (pyrophoric)	D, I, II
7439-92-1	lead	B2
7440-22-4	silver	D
7440-43-9	cadmium	B1
7440-47-3	chromium	D
7440-50-8	copper	D
7782-49-2	selenium	D
7440-38-2	arsenic	A

· **TLV (Threshold Limit Value)**

7429-90-5	aluminium	A4
10022-31-8	barium nitrate	A4
7440-02-0	nickel	A5
7439-92-1	lead	A3
7440-43-9	cadmium	A2
7440-47-3	chromium	A4
7440-48-4	cobalt	A3
7440-38-2	arsenic	A1
7439-98-7	molybdenum	A3

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

7440-02-0	nickel
7440-43-9	cadmium
7440-38-2	arsenic
19049-40-2	Beryllium acetate, basic

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

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· Hazard pictograms



GHS05 GHS06

· Signal word Danger

· Hazard-determining components of labeling:

nitric acid

· Hazard statements

Fatal if inhaled.

Causes severe skin burns and eye damage.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear eye protection / face protection.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

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

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment is urgent (see on this label).

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

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

16 Other information

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

· Department issuing SDS: Environment protection department.

· Contact: - Department Technical Manager

· Date of previous version 03/26/2024

· Date of preparation 06/30/2026

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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

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Safety Data Sheet

acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

Trade name: QCI-016, PEI-016

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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

Acute toxicity - inhalation 2: Acute toxicity – Category 2

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

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

· *** Data compared to the previous version altered.**

— US —