

SAFETY DATA SHEET

Legionella Latex Reagents

Section 1. Identification

GHS product identifier : *Legionella* Latex Reagents

Other means of identification : Not available.

Trade name		Code
	1. <i>Legionella</i> Latex Reagents:	
	<i>L. pneumophila</i> serogroup 2 Latex Reagent	PL.215
	<i>L. pneumophila</i> serogroup 3 Latex Reagent	PL.216
	<i>L. pneumophila</i> serogroup 4 Latex Reagent	PL.217
	<i>L. pneumophila</i> serogroup 5 Latex Reagent	PL.218
	<i>L. pneumophila</i> serogroup 6 Latex Reagent	PL.219
	<i>L. micdadei</i> Latex Reagent	PL.221
	Control - Latex Reagent	PL.223
	<i>L. pneumophila</i> serogroup 7 Latex Reagent	PL.325
	<i>L. pneumophila</i> serogroup 8 Latex Reagent	PL.326
	<i>L. pneumophila</i> serogroup 9 Latex Reagent	PL.327
	<i>L. pneumophila</i> serogroup 10 Latex Reagent	PL.328
	<i>L. pneumophila</i> serogroup 11 Latex Reagent	PL.329
	<i>L. pneumophila</i> serogroup 12 Latex Reagent	PL.330
	<i>L. pneumophila</i> serogroup 13 Latex Reagent	PL.331
	<i>L. pneumophila</i> serogroup 14 Latex Reagent	PL.332
	2. <i>Legionella</i> Polyvalent Control + Reagent: Polyvalent Control + (<i>L. pneumophila</i> sg 1 to 14)	PL.334

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

Identified uses : The *Legionella* Latex Reagents are intended for the presumptive identification of *Legionella pneumophila* serogroups 2 through 14 and *L. micdadei* culture colonies from agar plates.

Supplier's details : Pro-Lab Diagnostics
 20 Mural Street, Unit 4
 Richmond Hill, ON
 Canada L4B 1K3
 Tel: +1-905-731-0300
 Fax: +1-905-731-0206
 www.pro-lab.com

Emergency telephone number (with hours of operation) : 905-731-0300 –Monday to Friday 8:30 am to 5:00 pm Eastern Standard Time.
 416-230-0692 –Outside the above hours.

Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

PL.215	Not classified.
PL.216	Not classified.
PL.217	Not classified.
PL.218	Not classified.
PL.219	Not classified.
PL.221	Not classified.
PL.223	Not classified.
PL.325	Not classified.
PL.326	Not classified.
PL.327	Not classified.
PL.328	Not classified.
PL.329	Not classified.
PL.330	Not classified.
PL.331	Not classified.
PL.332	Not classified.
PL.334	Not classified.

GHS label elements

Signal word :

PL.215	No signal word.
PL.216	No signal word.
PL.217	No signal word.
PL.218	No signal word.
PL.219	No signal word.
PL.221	No signal word.
PL.223	No signal word.
PL.325	No signal word.
PL.326	No signal word.
PL.327	No signal word.
PL.328	No signal word.
PL.329	No signal word.
PL.330	No signal word.
PL.331	No signal word.
PL.332	No signal word.
PL.334	No signal word.

Hazard statements :

PL.215	No known significant effects or critical hazards.
PL.216	No known significant effects or critical hazards.
PL.217	No known significant effects or critical hazards.
PL.218	No known significant effects or critical hazards.
PL.219	No known significant effects or critical hazards.
PL.221	No known significant effects or critical hazards.
PL.223	No known significant effects or critical hazards.
PL.325	No known significant effects or critical hazards.
PL.326	No known significant effects or critical hazards.
PL.327	No known significant effects or critical hazards.
PL.328	No known significant effects or critical hazards.
PL.329	No known significant effects or critical hazards.
PL.330	No known significant effects or critical hazards.
PL.331	No known significant effects or critical hazards.
PL.332	No known significant effects or critical hazards.
PL.334	No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Section 2. Hazards identification

Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Physical hazards not otherwise classified (PHNOC)	: None known.
Health hazards not otherwise classified (HHNOC)	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

CAS number	: Not applicable.
-------------------	-------------------

Ingredient name	%	CAS number
PL.215 Sodium Azide	<0.25	26628-22-8
PL.216 Sodium Azide	<0.25	26628-22-8
PL.217 Sodium Azide	<0.25	26628-22-8
PL.218 Sodium Azide	<0.25	26628-22-8
PL.219 Sodium Azide	<0.25	26628-22-8
PL.221 Sodium Azide	<0.25	26628-22-8
PL.223 Sodium Azide	<0.25	26628-22-8
PL.325 Sodium Azide	<0.25	26628-22-8
PL.326 Sodium Azide	<0.25	26628-22-8
PL.327 Sodium Azide	<0.25	26628-22-8
PL.328 Sodium Azide	<0.25	26628-22-8
PL.329 Sodium Azide	<0.25	26628-22-8
PL.330 Sodium Azide	<0.25	26628-22-8
PL.331 Sodium Azide	<0.25	26628-22-8
PL.332		

Section 3. Composition/information on ingredients

Sodium Azide	<0.25	26628-22-8
PL.334 Sodium Azide	<0.25	26628-22-8

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 as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : 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 : 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

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : 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. Put on appropriate personal protective equipment.

For emergency responders : 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".

Environmental precautions : 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).

Methods and materials for containment and cleaning up

Spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : 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. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store at 2°C to 8°C. 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. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<p>PL.215 Sodium Azide</p>	<p>CA Ontario Provincial (Canada, 7/2015). C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor CA Alberta Provincial (Canada, 4/2009). C: 0.11 ppm, (Hydrazoic acid vapors) 15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes. C: 0.29 mg/m³ CA British Columbia Provincial (Canada, 7/2016). C: 0.29 mg/m³, (as sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) CA Quebec Provincial (Canada, 1/2014). STEV: 0.11 ppm 15 minutes. STEV: 0.3 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CELL: 0.11 ppm, (measured as hydrazoic acid vapor) CEIL: 0.29 mg/m³, (measured as sodium azide)</p>
<p>PL.216 Sodium Azide</p>	<p>CA Ontario Provincial (Canada, 7/2015). C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor CA Alberta Provincial (Canada, 4/2009). C: 0.11 ppm, (Hydrazoic acid vapors) 15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes. C: 0.29 mg/m³ CA British Columbia Provincial (Canada, 7/2016). C: 0.29 mg/m³, (as sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) CA Quebec Provincial (Canada, 1/2014). STEV: 0.11 ppm 15 minutes. STEV: 0.3 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CELL: 0.11 ppm, (measured as hydrazoic acid vapor) CEIL: 0.29 mg/m³, (measured as sodium azide)</p>
<p>PL.217 Sodium Azide</p>	<p>CA Ontario Provincial (Canada, 7/2015). C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor CA Alberta Provincial (Canada, 4/2009). C: 0.11 ppm, (Hydrazoic acid vapors) 15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes. C: 0.29 mg/m³ CA British Columbia Provincial (Canada, 7/2016). C: 0.29 mg/m³, (as sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) CA Quebec Provincial (Canada, 1/2014). STEV: 0.11 ppm 15 minutes. STEV: 0.3 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CELL: 0.11 ppm, (measured as hydrazoic acid vapor) CEIL: 0.29 mg/m³, (measured as sodium azide)</p>

Section 8. Exposure controls/personal protection

PL.218
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor
CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³
CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.219
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor
CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³
CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.221
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor
CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³
CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.223
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor
CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³
CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

Section 8. Exposure controls/personal protection

PL.325
Sodium Azide

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.326
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.327
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.328
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).

Section 8. Exposure controls/personal protection

PL.329
Sodium Azide

STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.330
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.331
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)
C: 0.11 ppm, (as Hydrazoic acid vapor)

CA Quebec Provincial (Canada, 1/2014).
STEV: 0.11 ppm 15 minutes.
STEV: 0.3 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).
CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
CEIL: 0.29 mg/m³, (measured as sodium azide)

PL.332
Sodium Azide

CA Ontario Provincial (Canada, 7/2015).
C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor

CA Alberta Provincial (Canada, 4/2009).
C: 0.11 ppm, (Hydrazoic acid vapors)
15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
C: 0.29 mg/m³, (as sodium azide)

Section 8. Exposure controls/personal protection

PL.334
Sodium Azide

C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
 STEV: 0.11 ppm 15 minutes.
 STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
 CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
 CEIL: 0.29 mg/m³, (measured as sodium azide)

CA Ontario Provincial (Canada, 7/2015).
 C: 0.29 mg/m³, (Dust and fumes) Form: Dust and fumes
 C: 0.11 ppm, (as Hydrazoic acid vapor) Form: as Hydrazoic acid vapor
CA Alberta Provincial (Canada, 4/2009).
 C: 0.11 ppm, (Hydrazoic acid vapors)
 15 min OEL: 0.3 mg/m³, (Hydrazoic acid vapors) 15 minutes.
 C: 0.29 mg/m³

CA British Columbia Provincial (Canada, 7/2016).
 C: 0.29 mg/m³, (as sodium azide)
 C: 0.11 ppm, (as Hydrazoic acid vapor)
CA Quebec Provincial (Canada, 1/2014).
 STEV: 0.11 ppm 15 minutes.
 STEV: 0.3 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).
 CEIL: 0.11 ppm, (measured as hydrazoic acid vapor)
 CEIL: 0.29 mg/m³, (measured as sodium azide)

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- 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: safety glasses with side-shields.
- 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.
- 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

Appearance

Physical state	:	PL.215	Liquid. [Suspension.]
		PL.216	Liquid. [Suspension.]
		PL.217	Liquid. [Suspension.]
		PL.218	Liquid. [Suspension.]
		PL.219	Liquid. [Suspension.]
		PL.221	Liquid. [Suspension.]
		PL.223	Liquid. [Suspension.]
		PL.325	Liquid. [Suspension.]
		PL.326	Liquid. [Suspension.]
		PL.327	Liquid. [Suspension.]
		PL.328	Liquid. [Suspension.]
		PL.329	Liquid. [Suspension.]
		PL.330	Liquid. [Suspension.]
		PL.331	Liquid. [Suspension.]
		PL.332	Liquid. [Suspension.]
	PL.334	Liquid.	
Color	:	PL.215	White.
		PL.216	White.
		PL.217	White.
		PL.218	White.
		PL.219	White.
		PL.221	White.
		PL.223	White.
		PL.325	White.
		PL.326	White.
		PL.327	White.
		PL.328	White.
		PL.329	White.
		PL.330	White.
		PL.331	White.
		PL.332	White.
	PL.334	Translucent.	
Odor	:		Not available.
Odor threshold	:		Not available.
pH	:	PL.215	7.4
		PL.216	7.4
		PL.217	7.4
		PL.218	7.4
		PL.219	7.4
		PL.221	7.4
		PL.223	7.4
		PL.325	7.4
		PL.326	7.4
		PL.327	7.4
		PL.328	7.4
		PL.329	7.4
		PL.330	7.4
		PL.331	7.4
		PL.332	7.4
	PL.334	7.4	
Melting point	:		Not available.
Boiling point	:		Not available.
Flash point	:		Not available.

Section 9. Physical and chemical properties

Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
PL.215 Sodium Azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
PL.216 Sodium Azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
PL.217 Sodium Azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
PL.218 Sodium Azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Section 11. Toxicological information

PL.219 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.221 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.223 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.325 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.326 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.327 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.328 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.329 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.330 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.331 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.332 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -
PL.334 Sodium Azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

Irritation/Corrosion

There is no data available.

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Section 11. Toxicological information

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

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

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
PL.215 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.216 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.217 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.218 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.219 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.221 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.223 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Algae - Pseudokirchneriella subcapitata Crustaceans - Simocephalus serrulatus - Larvae Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocyctis pyrifera	96 hours 48 hours 48 hours 96 hours 96 hours
PL.325 Sodium Azide	Acute EC50 0.348 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours

Section 12. Ecological information

PL.326 Sodium Azide	Acute EC50 6.4 mg/L Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.327 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.328 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.329 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.330 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.331 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.332 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours
PL.334 Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 6.4 mg/L Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/L Fresh water Acute LC50 0.68 mg/L Fresh water Chronic NOEC 5600 µg/L Marine water	Daphnia - <i>Daphnia pulex</i> - Larvae Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	48 hours 96 hours 96 hours

Section 12. Ecological information

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG : Not applicable.

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.

Section 15. Regulatory information

Canadian lists

- Canadian NPRI** : None of the components are listed.
CEPA Toxic substances : None of the components are listed.
Canada inventory : All components are listed or exempted.

International lists

National inventory

- Australia** : Not determined.
China : Not determined.
Europe : Not determined.
Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.

Section 16. Other information

History

- Date of issue** : 11/15/2017
Version : 1
Prepared by : KMK Regulatory Services Inc.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.