

SAFETY DATA SHEET



Streptococcal Grouping Latex Kits

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name	: Streptococcal Grouping Latex Kits	Code	
Trade name	: Prolex™ <i>Streptococcal Grouping</i> Latex Kits:	PL.030 / PL.041	
	Streptococcal Grouping Reagent Latex Suspension Group A	PL.031	
	Streptococcal Grouping Reagent Latex Suspension Group B	PL.032	
	Streptococcal Grouping Reagent Latex Suspension Group C	PL.033	
	Streptococcal Grouping Reagent Latex Suspension Group D	PL.034	
	Streptococcal Grouping Reagent Latex Suspension Group F	PL.035	
	Streptococcal Grouping Reagent Latex Suspension Group G	PL.036	
	Streptococcal Extraction Reagent 1	PL.037	
	Streptococcal Extraction Reagent 2	PL.038	
	Streptococcal Extraction Reagent 3	PL.039	
	Streptococcal Grouping Reagent Positive Control	PL.040	
Product type	: Liquid.		
Material uses	: Provides a rapid method for the serological identification of groups A, B, C, D, F and G of the Lancefield groups of streptococci grown on agar plates.		
Supplier/Manufacturer	: 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		
e-mail address of person responsible for this SDS	: support@pro-lab.com		
Emergency telephone number (with hours of operation)	: +44 (0)151 353 1613 -Monday to Friday 9:00 am to 5:00 pm. +44 (0)7714 429 646 -Outside the above hours.		

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: PL.031	Not classified.
	PL.032	Not classified.
	PL.033	Not classified.
	PL.034	Not classified.
	PL.035	Not classified.
	PL.036	Not classified.
	PL.037	O; R8 Xn; R22 N; R50
	PL.038	Not classified.
	PL.039	Not classified.
	PL.040	Not classified.
Physical/chemical hazards	: PL.031	Not applicable.
	PL.032	Not applicable.
	PL.033	Not applicable.
	PL.034	Not applicable.
	PL.035	Not applicable.
	PL.036	Not applicable.
	PL.037	Contact with combustible material may cause fire.
	PL.038	Not applicable.
	PL.039	Not applicable.
	PL.040	Not applicable.

2. HAZARDS IDENTIFICATION

Human health hazards : PL.031 Not applicable.
 PL.032 Not applicable.
 PL.033 Not applicable.
 PL.034 Not applicable.
 PL.035 Not applicable.
 PL.036 Not applicable.
 PL.037 Harmful if swallowed.
 PL.038 Not applicable.
 PL.039 Not applicable.
 PL.040 Not applicable.

Environmental hazards : PL.031 Not applicable.
 PL.032 Not applicable.
 PL.033 Not applicable.
 PL.034 Not applicable.
 PL.035 Not applicable.
 PL.036 Not applicable.
 PL.037 Very toxic to aquatic organisms.
 PL.038 Not applicable.
 PL.039 Not applicable.
 PL.040 Not applicable.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	Number	Classification
Streptococcal Grouping Reagent Extraction Reagent 1 - PL.037 Sodium nitrite	7632-00-0	5 - 10	231-555-9	O; R8 [1] T; R25 N; R50
Methanol	67-56-1	0.1 - 1	200-659-6	F; R11 [1] [2] T; R23/24/25, R39/23/24/25
Streptococcal Grouping Reagent Extraction Reagent 2 - PL.038 Acetic acid	64-19-7	<25	200-580-7	R10 [1] [2] C; R35
Streptococcal Grouping Reagent Extraction Reagent 3 - PL.039 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	77-86-1	10 - 30	201-064-4	Xi; R36/37/38 [1]
See section 16 for the full text of the R-phrases declared above				

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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

4. FIRST AID MEASURES

Inhalation : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. 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.

4. FIRST AID MEASURES

- Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** :
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
- 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.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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 spilt material. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt 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 for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large 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.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). 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.
- Storage** : Store in accordance with local regulations. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. Store between the following temperatures: 2°C (36°F) to 8°C (46°F).
- Packaging materials**
- Recommended** : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Methanol	EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 333 mg/m ³ 15 minute(s). STEL: 250 ppm 15 minute(s). TWA: 266 mg/m ³ 8 hour(s). TWA: 200 ppm 8 hour(s).
Acetic acid	EU OEL (Europe, 4/2006). Limit value: 25 mg/m ³ 8 hour(s). Limit value: 10 ppm 8 hour(s).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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.

Eye 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 or dusts.

Skin 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.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state	:	PL.031	Liquid. [Suspension.]
		PL.032	Liquid. [Suspension.]
		PL.033	Liquid. [Suspension.]
		PL.034	Liquid. [Suspension.]
		PL.035	Liquid. [Suspension.]
		PL.036	Liquid. [Suspension.]
		PL.037	Liquid. [Solution.]
		PL.038	Liquid. [Solution.]
		PL.039	Liquid. [Solution.]
		PL.040	Liquid. [Solution.]

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	:	PL.031	Blue.
		PL.032	Blue.
		PL.033	Blue.
		PL.034	Blue.
		PL.035	Blue.
		PL.036	Blue.
		PL.037	Yellow, transparant.
		PL.038	Red, transparant.
		PL.039	Blue, transparant.
		PL.040	Clear, colourless.

Important health, safety and environmental information

Solubility : Miscible in water.

10. STABILITY AND REACTIVITY

Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Drying on clothing or other combustible materials may cause fire. Avoid release into the environment.
Conditions to avoid	:	No specific data.
Materials to avoid	:	Reactive or incompatible with the following materials: reducing agents, organic materials, metals, acids, alkalis and moisture.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics

Absorption	:	Not available.
Distribution	:	Not available.
Metabolism	:	Not available.
Elimination	:	Not available.

Potential acute health effects

Inhalation	:	PL.031	No known significant effects or critical hazards.
		PL.032	No known significant effects or critical hazards.
		PL.033	No known significant effects or critical hazards.
		PL.034	No known significant effects or critical hazards.
		PL.035	No known significant effects or critical hazards.
		PL.036	No known significant effects or critical hazards.
		PL.037	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		PL.038	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
		PL.039	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		PL.040	No known significant effects or critical hazards.
Ingestion	:	PL.031	No known significant effects or critical hazards.
		PL.032	No known significant effects or critical hazards.
		PL.033	No known significant effects or critical hazards.
		PL.034	No known significant effects or critical hazards.
		PL.035	No known significant effects or critical hazards.
		PL.036	No known significant effects or critical hazards.
		PL.037	Harmful if swallowed.
		PL.038	May cause burns to mouth, throat and stomach.
		PL.039	No known significant effects or critical hazards.
		PL.040	No known significant effects or critical hazards.
Skin contact	:	PL.031	No known significant effects or critical hazards.
		PL.032	No known significant effects or critical hazards.
		PL.033	No known significant effects or critical hazards.
		PL.034	No known significant effects or critical hazards.
		PL.035	No known significant effects or critical hazards.
		PL.036	No known significant effects or critical hazards.
		PL.037	May cause skin irritation.

11. TOXICOLOGICAL INFORMATION

	PL.038	Severely corrosive to the skin. Causes burns.
	PL.039	No known significant effects or critical hazards.
	PL.040	No known significant effects or critical hazards.
Eye contact	: PL.031	No known significant effects or critical hazards.
	PL.032	No known significant effects or critical hazards.
	PL.033	No known significant effects or critical hazards.
	PL.034	No known significant effects or critical hazards.
	PL.035	No known significant effects or critical hazards.
	PL.036	No known significant effects or critical hazards.
	PL.037	May cause eye irritation.
	PL.038	Severely corrosive to the eyes. Causes severe burns.
	PL.039	No known significant effects or critical hazards.
	PL.040	No known significant effects or critical hazards.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Streptococcal Grouping Reagent Extraction Reagent 1 - PL.037 Sodium nitrite Methanol	LD50 Oral LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	85 mg/kg 64000 ppm 15800 mg/kg 5600 mg/kg	- 4 hours - -
Streptococcal Grouping Reagent Extraction Reagent 2 - PL.038 Acetic acid	LD50 Oral	Rat	3310 mg/kg	-
Streptococcal Grouping Reagent Extraction Reagent 3 - PL.039 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-	LD50 Oral	Rat	5900 mg/kg	-

Potential chronic health effects

Chronic effects	: 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.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: No specific data.
Eyes	: No specific data.

12. ECOLOGICAL INFORMATION

Ecotoxicity	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Sodium nitrite	Acute LC50 1100 ug/L Fresh water	Crustaceans - Cherax quadricarinatus - 0.1 to 0.14 g	48 hours
	Acute LC50 48 ug/L Fresh water	Fish - Ictalurus punctatus - Fingerling - 50 to 76 mm	96 hours
Methanol	Chronic NOEC 0.02 mg/L Fresh water	Fish - Labeo rohita - Fingerling	96 hours
	Acute LC50 2500000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 to 4395 mg/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
	Acute LC50 >100000 ug/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours
Acetic acid	Acute EC50 65000 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
	Acute LC50 50.1 ul/L Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 75000 ug/L Fresh water	Fish - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours

12. ECOLOGICAL INFORMATION

Other ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sodium nitrite	-	-	Readily

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

PBT : Not applicable.

vPvB : Not applicable.





13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium nitrite)	9	III		Limited Quantity Exemption
ADN/ADNR Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium nitrite)	9	III		Limited Quantity Exemption
IMDG Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium nitrite)	9	III		Limited Quantity Exemption
IATA Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium nitrite)	9	III		Limited Quantity Exemption

PG* : Packing group

Exemption to the above classification may apply.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Oxidising, Harmful, Dangerous for the environment

15. REGULATORY INFORMATION

- Risk phrases** : PL.031 This product is not classified according to EU legislation.
 PL.032 This product is not classified according to EU legislation.
 PL.033 This product is not classified according to EU legislation.
 PL.034 This product is not classified according to EU legislation.
 PL.035 This product is not classified according to EU legislation.
 PL.036 This product is not classified according to EU legislation.
 PL.037 R8- Contact with combustible material may cause fire.
 R22- Harmful if swallowed.
 R50- Very toxic to aquatic organisms.
- PL.038 This product is not classified according to EU legislation.
 PL.039 This product is not classified according to EU legislation.
 PL.040 This product is not classified according to EU legislation.
- Safety phrases** : S17- Keep away from combustible material.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28- After contact with skin, wash immediately with plenty of water.
 S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
- Contains** : Sodium nitrite
- Product use** : Industrial applications.
- Europe inventory** : All components are listed or exempted.
- Black List Chemicals** : Not listed
- Priority List Chemicals** : Not listed
- Integrated pollution prevention and control list (IPPC) - Air** : Not listed
- Integrated pollution prevention and control list (IPPC) - Water** : Not listed
- Other EU regulations**
- Additional warning phrases** : Safety data sheet available for professional user on request.
- International regulations**
- Chemical Weapons Convention: List Schedule I Chemicals** : Not listed
- Chemical Weapons Convention: List Schedule II Chemicals** : Not listed
- Chemical Weapons Convention: List Schedule III Chemicals** : Not listed

16. OTHER INFORMATION

- Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R8- Contact with combustible material may cause fire.
 R11- Highly flammable.
 R10- Flammable.
 R25- Toxic if swallowed.
 R22- Harmful if swallowed.
 R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.
 R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R35- Causes severe burns.
 R36/37/38- Irritating to eyes, respiratory system and skin.
 R50- Very toxic to aquatic organisms.

16. OTHER INFORMATION

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) :

- O - Oxidising
- F - Highly flammable
- T - Toxic
- Xn - Harmful
- C - Corrosive
- Xi - Irritant
- N - Dangerous for the environment

History

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Date of previous issue : 15/04/2009

Version : 4

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.