SAFETY DATA SHEET



ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

: ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1 **Product name**

: Blue **CAS** number 25322-68-3

Black 25322-68-3 Yellow Not applicable.

: PSS-PEOKITR1 Part no. (chemical kit)

: Rue Not available. Part no.

Black Not available. Yellow Not available.

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

> **B**lue 10 vials, 1.5 ml Black 10 vials, 1.5 ml Yellow 10 vials, 1.5 ml

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH

Hewlett-Packard-Str. 8 76337 Waldbronn Germany

0800 603 1000

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

: Blue **Product definition** Mono-constituent substance Black Mono-constituent substance

> Yellow Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Yellow

H315 SKIN CORROSION/IRRITATION Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION H319 Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE H335 Category 3

(Respiratory tract irritation)

Blue The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

The product is not classified as hazardous according to Regulation (EC) Black

1272/2008 as amended.

Yellow The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 1/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 2: Hazards identification

Ingredients of unknown

toxicity

: Yellow

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: > 60%

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: 10 - 30%

Ingredients of unknown

ecotoxicity

Contains 25% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

: Yellow

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

2.2 Label elements

Hazard pictograms :

: Yellow

Signal word : Blue No signal word.

Black No signal word.

Yellow Warning

Hazard statements : Diue No known significant effects or critical hazards.

Black No known significant effects or critical hazards. Yellow H315 - Causes skin irritation.

H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements

Prevention : Blue Not applicable.

Black Not applicable.

Yellow P280 - Wear protective gloves. Wear eye or face protection.

P261 - Avoid breathing vapour.

P264 - Wash thoroughly after handling.

Response : Diue Not applicable.

Black Not applicable.

Yellow P304 + P312 - IF INHALED: Call a POISON CENTER or

doctor if you feel unwell.

Storage : Due Not applicable.

Black Not applicable.

Yellow P403 + P233 - Store in a well-ventilated place. Keep

container tightly closed.

Disposal : Diue Not applicable.

Black Not applicable.

P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

Hazardous ingredients: **Y**ellow 3,6,9,12-tetraoxatetradecane-1,14-diol

Supplemental label
elements: FlueNot applicable.Black
YellowNot applicable.Not applicable.

Yellow

: Due Not applicable.
Black Not applicable.
Yellow Not applicable.

and use of certain dangerous substances, mixtures and articles

on the manufacture,

placing on the market

Annex XVII - Restrictions

Special packaging requirements

Tactile warning of
danger: Due
BlackNot applicable.Not applicable.Not applicable.

Yellow Not applicable.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 2/19

SECTION 2: Hazards identification

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	vP	vB	
Blue No	N/A	No	No	No	N/A	No	
Black No	N/A	No	No	No	N/A	No	

Yellow

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Due None known.
Black None known.
Yellow None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

: Dlue Black Yellow Mono-constituent substance Mono-constituent substance

Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Blue Poly(oxy-1,2-ethanediyl),α-	EC: 500-038-2	100	Not classified.	_	[1]
hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	CAS: 25322-68-3		Tot sidesined.		1.1
Black					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	EC: 500-038-2 CAS: 25322-68-3	100	Not classified.	-	[1]
Yellow					
3,6,9,12-tetraoxatetradecane- 1,14-diol	EC: 225-341-4 CAS: 4792-15-8	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

[1] Constituent

Type

Polyethylene glycol standard, nominal Mw 238 g/

mol

Polyethylene glycol standard, nominal Mw [1] Constituent

600-1200000 g/mol

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

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 3/19

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Blue

Black

Yellow

Inhalation : Blue

Black

Yellow

Skin contact : Blue

Black

Yellow

Ingestion : Diue

Black

Yellow

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. 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. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. 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.

Wash out mouth with water. 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.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 4/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 4: First aid measures

Protection of first-aiders : Blue No action shall be taken involving any personal risk or

without suitable training.

Black No action shall be taken involving any personal risk or

without suitable training.

Yellow No action shall be taken involving any personal risk or

without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous

to the person providing aid to give mouth-to-mouth

resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Black

Potential acute health effects

Eye contact: Blue No known significant effects or critical hazards.

Black No known significant effects or critical hazards.

Yellow Causes serious eye irritation.

Inhalation : Die No known significant effects or critical hazards.

Black No known significant effects or critical hazards.

Yellow May cause respiratory irritation.

Skin contact : Due No known significant effects or critical hazards.

No known significant effects or critical hazards.

Yellow Causes skin irritation.

Ingestion : Dive No known significant effects or critical hazards.

Black No known significant effects or critical hazards. Yellow No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Diue No specific data.

Black No specific data.

Yellow Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Blue No specific data.

Black No specific data.

No specific data.

Yellow Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : Due No specific data.

Black No specific data.

Yellow Adverse symptoms may include the following:

irritation redness

Ingestion : Blue No specific data.

Black No specific data. Yellow No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Diue Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist

Black Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Yellow Treat symptomatically. Contact poison treatment specialist

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : Blue No specific treatment.

Black No specific treatment. Yellow No specific treatment.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 5/19

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

Use an extinguishing agent suitable for the surrounding fire.

Black
Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

Yellow **⊠**lue Black

Yellow

None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Blue

In a fire or if heated, a pressure increase will occur and the

container may burst.

Black In a fire or if heated, a pressure increase will occur and the

container may burst.

Yellow In a fire or if heated, a pressure increase will occur and the

container may burst.

Hazardous combustion

products

: Blue

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

Black Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Yellow Decomposition products may include the following materials:

carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special precautions for

fire-fighters

: Blue

Black

Yellow

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. 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. 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

: Blue

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Black Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Yellow Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 6/19

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: Blue 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.

Black 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.

Yellow 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Put

on appropriate personal protective equipment.

For emergency responders

: Blue

If specialised 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".

Black If specialised 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".

Yellow If specialised 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".

6.2 Environmental

precautions

: Blue

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).

Black 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).

Yellow 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Blue

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.

Black 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.

Yellow 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.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 7/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 6: Accidental release measures

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Blue

Put on appropriate personal protective equipment (see

Section 8).

Black Put on appropriate personal protective equipment (see

Section 8).

Yellow Put on appropriate personal protective equipment (see

Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse

container.

Advice on general occupational hygiene

: Blue 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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. Remove contaminated clothing and protective equipment before entering eating areas. See also

Section 8 for additional information on hygiene measures.

Yellow

Black

7.2 Conditions for safe storage, including any incompatibilities

Storage : Mue

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

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Black 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. See Section 10 for incompatible materials

before handling or use.

Yellow 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

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 8/19

SECTION 7: Handling and storage

Section 10) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations: Die Industrial applications, Professional applications.

Black Industrial applications, Professional applications.

Yellow Industrial applications, Professional applications.

Industrial sector specific
solutions: BlueNot available.Black
YellowNot available.Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Blue					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-	DNEL	Long term	7.14 mg/m ³	General	Systemic
hydroxy- Ethane-1,2-diol, ethoxylated		Inhalation		population	
	DNEL	Long term Oral	40 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	40 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	40.2 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	112 mg/kg bw/day	Workers	Systemic
Black					
Poly(oxy-1,2-ethanediyl),α-hydro-ω- hydroxy- Ethane-1,2-diol, ethoxylated	DNEL	Long term Inhalation	7.14 mg/m³	General population	Systemic
	DNEL	Long term Oral	40 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	40 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	40.2 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	112 mg/kg bw/day	Workers	Systemic

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 9/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.

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 sideshields.

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.

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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Colour

Odour

Physical state : Blue Solid.
Black Solid.

Yellow Solid.
: Flue White.

Black White.
Yellow Not available.

: Due Odourless.
Black Odourless.
Yellow Not available.
: Due Not available.

Odour threshold : Blue Not available.

Black Not available.

Yellow Not available.

Melting point/freezing : Blue Not available.

point Black Not available.

Not available.

point Black Not available.
Yellow Not available.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 10/19

SECTION 9: Physical and chemical properties

Initial boiling point and

Upper/lower flammability

or explosive limits

boiling range

Black 250°C 250°C

Yellow Not available.

Flammability: Blue Not applicable.
Black Not applicable.

Yellow Not applicable.

Blue Not available.

Black Not available.

Yellow Not available.

Flash point : Due Closed cup: 171 to 235°C

Open cup: 199 to 238°C

Black
Closed cup: 171 to 235°C

Open cup: 199 to 238°C

Yellow Not available.

Ingredient nameClosed cupOpen cup°CMethod°CMethodVellow171 to hydro-ω-hydro-ω-hydro-μ-hydroxy- Ethane-1,2-diol, ethoxylated171 to 235199 to 238

Auto-ignition temperature

Blue 360°C Black 360°C

Ingredient name	°C	Method
F ellow		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	-

Decomposition temperature

: Due Not available.
Black Not available.
Yellow Not available.

pH : ► Sue 5 to 7

Black 5.7
Yellow Not available.

Viscosity : Due Not available.

Black Not available. Yellow Not available.

Solubility(ies)

Media	Result
B lue	
water	Soluble
Black	
water	Soluble
Yellow	
water	Soluble

Partition coefficient: n-octanol/water

: Due Not available.
Black Not available.
Yellow Not applicable.

 Vapour pressure
 : Flue
 0.00000004 kPa (0.0000003 mm Hg)

 Black
 0.00000004 kPa (0.0000003 mm Hg)

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 11/19

SECTION 9: Physical and chemical properties

	Vapour	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Y ellow							
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-	
3,6,9,12-tetraoxatetradecane- 1,14-diol	0.000000232	0.000000031	-	-	-	-	

: Blue **Evaporation rate** Not available.

Black Not available. Yellow Not available.

Relative density Blue 1.13

Black 1.13 Yellow Not available.

Vapour density : Blue Not available.

Black Not available. Yellow Not available.

Explosive properties : Blue Not available.

Black Not available. Yellow Not available. Blue Not available.

Oxidising properties Black Not available.

Yellow Not available.

Particle characteristics

: Blue Median particle size Not applicable.

Black Not applicable. Yellow Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

: Blue 10.1 Reactivity No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Black

product or its ingredients.

No specific test data related to reactivity available for this Yellow

product or its ingredients.

: Blue 10.2 Chemical stability The product is stable.

> Black The product is stable. Yellow The product is stable.

10.3 Possibility of

: Blue Under normal conditions of storage and use, hazardous hazardous reactions reactions will not occur.

Under normal conditions of storage and use, hazardous Black

reactions will not occur.

Yellow Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : Blue No specific data.

Black No specific data. Yellow No specific data.

Date of issue/Date of revision Date of previous issue : 25/04/2024 : 04/07/2023 Version: 2 12/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 10: Stability and reactivity

10.5 Incompatible : Blue May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Yellow May react or be incompatible with oxidising materials.

10.6 Hazardous : Blue Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Black Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Yellow Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

decomposition products

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Slue Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
Black Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Flue Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 500 mg	-
Black Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
1,2-dioi, ethoxylated	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	500 mg 24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitiser

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 13/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 11: Toxicological information

Teratogenicity

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Yellow 3,6,9,12-tetraoxatetradecane-1,14-diol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Skin contact

Skin contact

Information on likely : Blue Not available. Black routes of exposure Not available. Yellow Not available.

Potential acute health effects

Inhalation : Blue No known significant effects or critical hazards.

No known significant effects or critical hazards. Black

May cause respiratory irritation. Yellow

: Blue Ingestion No known significant effects or critical hazards.

Black No known significant effects or critical hazards. No known significant effects or critical hazards. Yellow Mue No known significant effects or critical hazards. No known significant effects or critical hazards. Black

Yellow Causes skin irritation.

: Blue No known significant effects or critical hazards. Eye contact

Black No known significant effects or critical hazards.

Yellow Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Blue No specific data.

Black No specific data.

Yellow Adverse symptoms may include the following:

respiratory tract irritation

coughing

: Blue No specific data. Ingestion

Black No specific data. Yellow No specific data. : Blue No specific data. No specific data. Black

Adverse symptoms may include the following: Yellow

> irritation redness

: Blue **Eye contact** No specific data.

> Black No specific data.

Yellow Adverse symptoms may include the following:

pain or irritation

watering

redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version: 2 14/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 11: Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Potential chronic health effects

Conclusion/Summary: Not available.

General : Due No known significant effects or critical hazards.

Black No known significant effects or critical hazards. Yellow No known significant effects or critical hazards.

Carcinogenicity : Diue No known significant effects or critical hazards.

Black No known significant effects or critical hazards. Yellow No known significant effects or critical hazards.

Mutagenicity : Blue No known significant effects or critical hazards.

Black No known significant effects or critical hazards. Yellow No known significant effects or critical hazards.

Reproductive toxicity : Dilue No known significant effects or critical hazards.

Black No known significant effects or critical hazards. Yellow No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Βίυe Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
1,2-diol, ethoxylated	Acute LC50 >1000000 μg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours
Black Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
, ,	Acute LC50 >1000000 µg/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Blue Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
Black Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 15/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Blue Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily
Black Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Flue Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	3.2	Low
Black Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	-	3.2	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
Blue Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	No	N/A	No	No	No	N/A	No	
Black Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane- 1,2-diol, ethoxylated	No	N/A	No	No	No	N/A	No	

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 16/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 13: Disposal considerations

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. 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. 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.

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 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.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 17/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 15: Regulatory information

Product / Ingredient name	Identifiers	Designation [Usage]
Yellow Yellow	-	3

Label : Due Not applicable.

Black Not applicable.

Yellow Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic

Union Japan : Russian Federation inventory: All components are listed or exempted.

: **Japan inventory (CSCL)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.

New Zealand : All components are listed or exempted.
 Philippines : All components are listed or exempted.
 Republic of Korea : All components are listed or exempted.
 Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.Viet Nam : All components are listed or exempted.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 18/19

ReadyCal-Kit PEOPEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEOKITR1

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Y ellow		
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
STOT SE 3, H335	Calculation method	

Full text of abbreviated H statements

Y ellow	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Full text of classifications [CLP/GHS]

Y ellow	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

Date of issue/ Date of

revision

: 25/04/2024

Date of previous issue : 04/07/2023

Version : 2

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Date of issue/Date of revision : 25/04/2024 Date of previous issue : 04/07/2023 Version : 2 19/19