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

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

CAS number : Flue 25322-68-3 Black 25322-68-3

Yellow Not applicable.

Part no. (chemical kit) : PSS-PEOKITR1

Part no. : Blue Not available.

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

 Blue
 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 LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

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

hours of

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Flue Mono-constituent substance
Black Mono-constituent substance

Yellow Mixture

: CHEMTREC®: +(44)-870-8200418

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

Yellow

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

(Respiratory tract irritation)

Mue The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Black The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Yellow The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

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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

: Yellow

Contains 25% of components with unknown hazards to the

aquatic environment

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

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

2.2 Label elements

Hazard pictograms

: Yellow

: Blue Signal word No signal word.

> No signal word. Black Yellow Warning

: Blue No known significant effects or critical hazards. **Hazard statements**

Black No known significant effects or critical hazards.

Not applicable.

Yellow H315 - Causes skin irritation.

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

Precautionary statements

Prevention : Blue

Black Not applicable.

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

P261 - Avoid breathing vapour.

P264 - Wash thoroughly after handling.

: Blue Response Not applicable.

Black Not applicable.

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

doctor if you feel unwell.

: Blue **Storage** Not applicable.

Black Not applicable.

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

container tightly closed.

: Blue **Disposal** Not applicable. Black

Not applicable.

Yellow P501 - Dispose of contents and container in accordance with

all local, regional, national and international regulations.

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

: Blue Supplemental label Not applicable. elements Black Not applicable. Yellow

Not applicable. : Blue Not applicable. Black Not applicable. Yellow Not applicable.

placing on the market and use of certain dangerous substances, mixtures and articles

Annex XVII - Restrictions

on the manufacture,

Special packaging requirements

: Blue Containers to be fitted Not applicable. with child-resistant Black Not applicable. Yellow Not applicable. fastenings

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

SECTION 2: Hazards identification

Tactile warning of danger

: Rlue Not applicable. Black Not applicable. Yellow Not applicable.

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 N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

: Blue None known. None known. Black Yellow None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

Blue Black Yellow

Mono-constituent substance Mono-constituent substance Mixture

% **Product/ingredient name Identifiers** Classification **Type B**lue Poly(oxy-1,2-ethanediyl),α-hydro-EC: 500-038-2 Not classified. 100 [1] ω-hydroxy- Ethane-1,2-diol, CAS: 25322-68-3 ethoxylated **Black** Poly(oxy-1,2-ethanediyl),α-hydro-EC: 500-038-2 100 Not classified. [1] ω-hydroxy- Ethane-1,2-diol, CAS: 25322-68-3 ethoxylated Yellow 3.6.9.12-tetraoxatetradecane-EC: 225-341-4 ≥25 - ≤50 Skin Irrit. 2, H315 [1] Eye Irrit. 2, H319 1,14-diol CAS: 4792-15-8 **STOT SE 3, H335** See Section 16 for the full text of the H statements declared above.

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.

Type

Blue [1] Constituent Black [1] Constituent

[1] Substance classified with a health or environmental hazard Yellow

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Blue 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

Yellow

Black

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SECTION 4: First aid measures

lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Get medical attention.

: Blue Inhalation Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

Black Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms

Yellow 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-tomouth 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.

: Blue **Skin contact** 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.

No action shall be taken involving any personal risk or without

suitable training.

No action shall be taken involving any personal risk or without

suitable training.

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 selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Black

Yellow

Ingestion

: Blue

Black

Yellow

Protection of first-aiders : Blue

Black

Yellow

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Due No specific data.
Black No specific data.

Yellow Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Due No specific data.

Black 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 : Due 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 : Blue 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.

Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : ☑ue No specific treatment.

Yellow

Black No specific treatment. Yellow No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing : Blue media : Black

Black Yellow Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing : Blue

media

Black None known.
Yellow 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

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Black

Yellow

SECTION 5: Firefighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Flue 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

: **⊠**lue Fi

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

face-piece operated in positive pressure mode.

Black Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Yellow 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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Blue

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.

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

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SECTION 6: Accidental release measures

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 : Due 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.

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 : Due 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.

Black 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 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

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.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Storage : Blue 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.

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 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: Dive Industrial applications, Professional applications.

Black Industrial applications, Professional applications.

Not available. Not available.

Not available.

Yellow Industrial applications, Professional applications.

Industrial sector specific

solutions

Black Yellow

SECTION 8: Exposure controls/personal protection

: Blue

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Exposure	Value	Population	Effects
Blue 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
Cirioxylatou	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
o in oxylated	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

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.

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SECTION 8: Exposure controls/personal protection

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

Physical state : Blue Solid.

Solid. Black Yellow Solid.

Blue Colour White. Black White.

Yellow Not available.

Odour : Blue Odourless.

> Black Odourless. Yellow Not available. : Blue Not available.

Odour threshold Black Not available.

Yellow Not available. : Blue Not available. **Black** Not available. Yellow Not available.

Initial boiling point and

boiling range

Melting point/freezing

point

: Blue 250°C Black 250°C

Yellow Not available. Blue **Flammability** Not applicable. Not applicable. Black

Yellow Not applicable. : Blue Not available. **Black** Not available.

Upper/lower flammability or explosive limits

Flash point

Yellow Not available. Closed cup: 171 to 235°C : Blue

Open cup: 199 to 238°C Black Closed cup: 171 to 235°C Open cup: 199 to 238°C

Yellow Not available.

Closed cup Open cup °C °C Method Ingredient name Method Yellow Poly(oxy-1,2-ethanediyl), α -hydro- ω -171 to 199 to hydroxy- Ethane-1,2-diol, ethoxylated 235 238

Auto-ignition temperature

Blue 360°C 360°C Black

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

Decomposition temperature

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

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SECTION 9: Physical and chemical properties

pH : **B**lue 5 to 7 Black 5.7

Yellow S.7
Not available.

Viscosity : Due Not available.

Black Not available. Yellow Not available.

Solubility(ies) : Media Result

BlueSolublewaterSolubleBlackSolublewaterSolubleYellowSoluble

Partition coefficient: noctanol/water Black Not available.
Yellow Not applicable.

 Vapour pressure
 : Flue
 0.00000004 kPa (0.0000003 mm Hg)

 Black
 0.00000004 kPa (0.0000003 mm Hg)

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

Evaporation rate : Due Not available.

1,14-diol

Black Not available. Yellow Not available.

Relative density : Due 1.13

Black 1.13 Yellow Not a

Yellow Not available.

Vapour density: Blue Not available.

Black Not available.
Yellow Not available.

Explosive properties : Sue Not available.

Black Not available.
Yellow Not available.

Efue Not available.

Oxidising properties : Blue Not available.
Black Not available.

Yellow Not available.

Particle characteristics

Median particle size : Due Not applicable.

Black Not applicable. Yellow Not applicable.

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

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

product or its ingredients.

Black No specific test data related to reactivity available for this

product or its ingredients.

Yellow No specific test data related to reactivity available for this

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.

Black Under normal conditions of storage and use, hazardous

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.

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

> Black 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.

Under normal conditions of storage and use, hazardous Black

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous Yellow

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

materials

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

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SECTION 11: Toxicological information

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	-
1,2 diei, ediexylated	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	500 mg 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	-
,,,,,,,	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.

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.

Information on likely: BlueNot available.routes of exposureBlackNot available.YellowNot available.

Potential acute health effects

Inhalation : Diue No known significant effects or critical hazards.

Black No known significant effects or critical hazards.

Yellow May cause respiratory irritation.

Ingestion : Diue No known significant effects or critical hazards.

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

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

Black No known significant effects or critical hazards.

Yellow Causes skin irritation.

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

Black No known significant effects or critical hazards.

Yellow Causes serious eye irritation.

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SECTION 11: Toxicological information

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

Ingestion : Dive No specific data.

Black
Yellow
No specific data.
Yellow
No specific data.
No specific data.
No specific data.
No specific data.

Yellow Adverse symptoms may include the following:

irritation redness

Eye contact : Due 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

Skin contact

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

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: Die 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: Blue No known significant effects or critical hazards.

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

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Blue 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 - Atlantic salmon - <i>Salmo</i> salar - 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
1,2-dioi, etrioxylated	Acute LC50 >1000000 μg/l Fresh water	Fish - Atlantic salmon - <i>Salmo</i> salar - Parr	96 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Slue 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	-

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Flue 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
Blue 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

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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	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

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SECTION 14: Transport information

14.6 Special precautions

for user

instruments

: **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

: Not available.

SECTION 15: Regulatory information

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

UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

Product / Ingredient name	Identifiers	Status
Y ellow		
Yellow	-	3

Label : Blue Not applicable.
Black Not applicable.
Yellow Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

15.2 Chemical safety 15.2 Chemical safety 15.3 Chemical safety 15.4 Chemical Safety Assessments might still be required.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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SECTION 15: Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted.

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

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

Yellow

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

Full text of classifications

Yellow

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

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