SAFETY DATA SHEET



ReadyCal-Kit PEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEGKITR1

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

1.1 Product identifier

Product name : ReadyCal-Kit PEG, 3 x 10 Vials, 1.5ml, Part Number PSS-PEGKITR1

CAS number : **©**reen 25322-68-3

White Not applicable. Red Not applicable.

Part no. (chemical kit) : PSS-PEGKITR1

Part no. : Green Not available.

White Not available. Red 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

 Øreen
 10 vials, 1.5 ml

 White
 10 vials, 1.5 ml

 Red
 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

: CHEMTREC®: +(44)-870-8200418

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Green Mono-constituent substance

White Mixture Red Mixture

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

White

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)

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

1272/2008 as amended.

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

amended.

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

1272/2008 as amended.

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SECTION 2: Hazards identification

Ingredients of unknown: White Percentage of the mixture consisting of ingredient(s) of

toxicity 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%

Red Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

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: 1 - 10%

Ingredients of unknown: White Contains 25% of components with unknown hazards to the

aquatic environment

Red Contains 8% 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

ecotoxicity

Hazard pictograms : ₩hite

Signal word : Green No signal word.

White Warning

Red No signal word.

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

White H315 - Causes skin irritation.

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

Red No known significant effects or critical hazards.

Precautionary statements

Storage

Disposal

Prevention : Green Not applicable.

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

P261 - Avoid breathing dust.

P264 - Wash thoroughly after handling. Not applicable.

Response Red Not applicable.

Response Not applicable.

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

doctor if you feel unwell.

Red Not applicable.

Freen Not applicable.

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

container tightly closed.

Red Not applicable.

: Green Not applicable.

White P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

Red Not applicable.

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

Supplemental label : Green Not applicable. elements White Not applicable.

Red Safety data sheet available on request.

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SECTION 2: Hazards identification

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

GreenNot applicable.WhiteNot applicable.RedNot applicable.

Special packaging requirements

Tactile warning of danger

: Green White Red

Not applicable. Not applicable. 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	T	vPvB	vP	vB
Green No	N/A	No	No	No	N/A	No

₩hite This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Red This mixture does not contain any substances that are

Mixture

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: Green None known.
White None known.
Red None known.

SECTION 3: Composition/information on ingredients

3.1 Substances

reen White Red

Mono-constituent substance Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
G reen					
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]
White					
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	-	[1]
Red					
3,6,9,12-tetraoxatetradecane- 1,14-diol	EC: 225-341-4 CAS: 4792-15-8	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
			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.

<u>Type</u>

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SECTION 3: Composition/information on ingredients

⊘reen [1] Constituent

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

[1] Substance classified with a health or environmental hazard

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

White

Red

Red

SECTION 4: First aid measures

4.1 Description of first aid measures

Red

Eye contact : Green 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.

Red Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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

comfortable for breathing. Get medical attention if

symptoms occur.

White 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.

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

comfortable for breathing. Get medical attention if

symptoms occur.

Skin contact : Green Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

White 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. Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : Green 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.

White 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.

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SECTION 4: First aid measures

Red 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.

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

without suitable training.

White 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.

Red No action shall be taken involving any personal risk or

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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

> White Causes serious eye irritation.

Red No known significant effects or critical hazards. : Green No known significant effects or critical hazards. Inhalation

> May cause respiratory irritation. White

Red No known significant effects or critical hazards. Skin contact

: Green No known significant effects or critical hazards. White

Causes skin irritation.

Red No known significant effects or critical hazards. : **Ø**reen No known significant effects or critical hazards. White No known significant effects or critical hazards.

Red No known significant effects or critical hazards.

Over-exposure signs/symptoms

Ingestion

Inhalation

Ingestion

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

White Adverse symptoms may include the following:

pain or irritation

watering redness

Red No specific data. : Green No specific data.

White Adverse symptoms may include the following:

respiratory tract irritation

coughing

Red No specific data. : Green No specific data.

Skin contact White Adverse symptoms may include the following:

> irritation redness

Red No specific data. : Green No specific data.

White No specific data. Red No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

White

: Green Notes to physician 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. Red Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

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SECTION 4: First aid measures

Specific treatments

White No specific treatment.

Red No specific treatment.

No specific treatment.

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Green White Red 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

media

©reen White Red

None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Green White Red No specific fire or explosion hazard. No specific fire or explosion hazard. No specific fire or explosion hazard.

Hazardous combustion

products

: Øreen

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

White Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Red Decomposition products may include the following materials:

carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special precautions for

fire-fighters

: **Ø**reen

White

Red

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

: Øreen

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.

White 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.

Red 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency : S

personnel

: Green 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.

White 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal

protective equipment.

Red 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.

For emergency responders

: Green

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".

White 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".

Red 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

: Green

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).

White 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).

Red 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 : Green Move containers from spill area. Vacuum or sweep up

material and place in a designated, labelled waste container.

Dispose of via a licensed waste disposal contractor.

White Move containers from spill area. Avoid dust generation.

Using a vacuum with HEPA filter will reduce dust dispersal.

Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal

contractor.

Red Move containers from spill area. Vacuum or sweep up

material and place in a designated, labelled waste 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.

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Red

White

Red

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Green Put on appropriate personal protective equipment (see

Section 8).

White Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and

clothing. 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.

Put on appropriate personal protective equipment (see

Section 8).

Advice on general : Green occupational hygiene

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.

Eating, drinking and smoking should be prohibited in areas

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Freen 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.

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.

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

White

Red

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SECTION 7: Handling and storage

before handling or use.

7.3 Specific end use(s)

Green Recommendations Industrial applications, Professional applications.

White Industrial applications, Professional applications. Red

Industrial applications, Professional applications.

Industrial sector specific

solutions

Øreen Not available. Not available. White Not available. Red

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	Type	Exposure	Value	Population	Effects
G reen					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	DNEL	Long term Inhalation	7.14 mg/m ³	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		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.

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SECTION 8: Exposure controls/personal protection

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

point

Physical state : Green Solid.

White Solid.
Red Solid.
Green White

White Not available. Red Not available.

Odour : Green Odourless.
White Not available.

Red Not available.

Freen Not available.

White Not available.

Red Not available.

Freen Not available.

White Not available.

Red Not available.

Initial boiling point and

Melting point/freezing

Odour threshold

boiling range

: Green 250°C
White Not available.
Red Not available.

Flammability: Green Not available. White Not available. Red Not available.

Upper/lower flammability or explosive limits

Freen Not applicable.
White Not applicable.
Red Not applicable.

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

Open cup: 199 to 238°C

White Not applicable. Red Not applicable.

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SECTION 9: Physical and chemical properties

Auto-ignition temperature

©reen 360°C White Not ap

Decomposition temperature

White Not applicable. Red Not applicable.

Freen Not available. Not available. Red Not available.

pH : Green White

Green 5 to 7
 White Not available.
 Red Not available.
 Green Not applicable.
 White Not applicable.
 Red Not applicable.

Solubility(ies)

Viscosity

Media Result

Freen

water Soluble

White

water Soluble

Red

water Soluble

Soluble

Partition coefficient: noctanol/water White Not available.

Red Not applicable.

Not applicable.

Evaporation rate : Green Not available.
White Not available.

White Not available. Red Not available.

Relative density: Freen 1.13

White Not available.
Red Not available.

Freen Not applicable.

White Not applicable.
Red Not applicable.

Explosive properties : Freen Not available.

White Not available.
Red Not available.

Freen Not available.
White Not available.

Red Not available.

Particle characteristics

Oxidising properties

Vapour density

Median particle size : Green Not available.
White Not available.

White Not available. Red Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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

product or its ingredients.

White No specific test data related to reactivity available for this

product or its ingredients.

Red No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : Green The product is stable.

White The product is stable. Red The product is stable.

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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions : Creen Under normal conditions of storage and use, hazardous

reactions will not occur.

White Under normal conditions of storage and use, hazardous

reactions will not occur.

Red Under normal conditions of storage and use, hazardous

reactions will not occur.

: Creen 10.4 Conditions to avoid No specific data.

> White No specific data. Red No specific data.

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

May react or be incompatible with oxidising materials. Red May react or be incompatible with oxidising materials.

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

> decomposition products should not be produced. White

Under normal conditions of storage and use, hazardous

decomposition products should not be produced. Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

Red

11.1 Information on toxicological effects

Acute toxicity

materials

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)
Green 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
Green 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 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.

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SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

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

Ingestion

Eye contact

: **Ø**reen Not available. Information on likely

White Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. routes of exposure

> Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Red

Potential acute health effects

No known significant effects or critical hazards. Inhalation : Green

White May cause respiratory irritation.

Red No known significant effects or critical hazards. : Green No known significant effects or critical hazards.

Ingestion

White No known significant effects or critical hazards. Red No known significant effects or critical hazards. : Green No known significant effects or critical hazards.

White Causes skin irritation. Red

No known significant effects or critical hazards. : Green No known significant effects or critical hazards. **Eye contact**

> White Causes serious eye irritation.

Red No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Green No specific data.

> White Adverse symptoms may include the following:

> > respiratory tract irritation

couahina

Red No specific data. : Creen No specific data. White No specific data. Red No specific data.

Skin contact Green No specific data.

> White Adverse symptoms may include the following:

irritation redness

Red No specific data. : Green No specific data.

White Adverse symptoms may include the following:

pain or irritation

watering redness

Red No specific data.

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

Short term exposure

Potential immediate Not available.

effects

Potential delayed

: Not available.

effects

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SECTION 11: Toxicological information

Long term exposure

Potential immediate

effects

: Not available.

Determine a

Potential delayed : Not available.

effects

Potential chronic health effects

Conclusion/Summary: Not available.

General: Freen No known significant effects or critical hazards.

White No known significant effects or critical hazards.
Red No known significant effects or critical hazards.

Carcinogenicity : Freen No known significant effects or critical hazards.

White No known significant effects or critical hazards. Red No known significant effects or critical hazards.

Mutagenicity: Freen No known significant effects or critical hazards.

White No known significant effects or critical hazards. Red No known significant effects or critical hazards.

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

White No known significant effects or critical hazards. Red 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
Green 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, otrioxylatod	Acute LC50 >1000000 μg/l Fresh water	Fish - Salmo salar - Parr	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Green 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	-

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

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
Green 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 (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB	
Freen 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

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	-	-	-

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SECTION 14: Transport information

	•		
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

No listed substance

Label : Green Not applicable.

White Not applicable. Red 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.

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SECTION 15: Regulatory information

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 : Not determined.

China : All components are listed or exempted.

Eurasian Economic

Union

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

Japan : 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 : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

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.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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	
₩ hite		
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
STOT SE 3, H335	Calculation method	

Full text of abbreviated H statements

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

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SECTION 16: Other information

Full text of classifications [CLP/GHS]

White
Eye Irrit. 2
Skin Irrit. 2
STOT SE 3

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SKIN CORROSION/IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

Red

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 3

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Notice to reader

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