SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

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

Part no. (chemical kit) : PSS-PEOKITR1

Part no. : Diue Not available.

Black Not available. Yellow Not available.

Validation date : 4/25/2024

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

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Blue While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Black While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Yellow This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Yellow

H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A

H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

Yellow Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

25%

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Section 2. Hazards identification

2.2 GHS label elements

Hazard pictograms : Yellow

<u>(i)</u>

Signal word : Mue No signal word.

Black No signal word.

Yellow Warning
Hazard statements : Blue No know

Black

No known significant effects or critical hazards.

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 : Due Not applicable.
Black Not applicable.

Yellow P280 - Wear protective gloves. Wear eye or face

protection.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

Response : Flue Not applicable.

Black Not applicable.

Yellow P304 + P312 - IF INHALED: Call a POISON

CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and

wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of

water

P305 + P351 + P338 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Storage : Diue 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.

Yellow P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Supplemental label : Flue None known.

elements Black None known.

Black None known. Yellow None known.

2.3 Other hazards

Hazards not otherwise : Due None known.
classified Black None known.

Yellow None known.

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Section 3. Composition/information on ingredients

Substance/mixture

: Mue Black Yellow Substance Substance Mixture

Ingredient name	%	CAS number
B iue		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	100	25322-68-3
Black		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	100	25322-68-3
Yellow		
3,6,9,12-tetraoxatetradecane-1,14-diol	≥25 - ≤50	4792-15-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

•	essary first aid measures : Blue	Immediately flush eyes with planty of water
Eye contact	: plue	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.
	Black	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.
	Yellow	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.
Inhalation	: B lue	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Black	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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-to-mouth resuscitation. Get medical attention. If

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necessary, call a poison center or physician. If unconscious, place in recovery position and get

Section 4. First aid measures

Skin contact : Blue

Black

Yellow

Ingestion : Blue

Black

Yellow

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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Blue

Black Yellow

Inhalation : **B**lue

Black Yellow

Skin contact : Due Black

Yellow

Ingestion : Due

Black Yellow

Over-exposure signs/symptoms

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

Causes serious eye irritation.

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

May cause respiratory irritation.

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

Causes skin irritation.

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

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Section 4. First aid measures

Eye contact : Due 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.

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 : Diue No specific data.

Black No specific data. Yellow No specific data.

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

Notes to physician : Blue Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Black Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Yellow Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : Due No specific treatment.

Black No specific treatment.
Yellow No specific treatment.

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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Blue Use an extinguishing agent suitable for the

surrounding fire.

Black Use an extinguishing agent suitable for the

surrounding fire.

Yellow Use an extinguishing agent suitable for the

surrounding fire.

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Section 5. Fire-fighting measures

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: 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.

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

and the container may burst.

Hazardous thermal decomposition products

: Blue

Yellow

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 protective actions for fire-fighters

: Blue

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.

Black 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.

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.

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.

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.

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Blue

Black

Yellow

For emergency responders: Blue

Black

Yellow

6.2 Environmental precautions

: Blue

Black

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 spilled 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

: Blue Methods for cleaning up

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

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.

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.

Section 7. Handling and storage

7.1 Precautions for safe handling

: Blue **Protective measures**

Black

Yellow

Advice on general occupational hygiene : Blue

Black

Yellow

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

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

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

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.

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Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: Blue

Black

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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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 unlabeled 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 unlabeled 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

: **B**lue Black

Yellow

Industrial sector specific solutions

: Blue Black Yellow Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Not available. Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Blue Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	OARS WEEL (United States, 4/2022). TWA: 10 mg/m³ 8 hours.
Black Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	OARS WEEL (United States, 4/2022). TWA: 10 mg/m³ 8 hours.
Yellow	

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Section 8. Exposure controls/personal protection

3,6,9,12-tetraoxatetradecane-1,14-diol None.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

Environmental exposure controls

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

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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state : Blue Solid.
Black Solid.

Yellow Solid.
Color : Blue White.

Black White. Yellow Not available.

Odor : Blue Odorless.

Black Odorless.
Yellow Not available.

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Melting point/freezing point

Section 9. Physical and chemical properties and safety characteristics

Odor threshold : Blue Not available.
Black Not available.

Yellow Not available.

pH : Flue 5 to 7
Black 5.7

Yellow Not available.

Blue Not available.

Black Not available.

Yellow Not available.

Boiling point, initial boiling point, and boiling range Black Yellow Not available.

Yellow Not available.

Flash point : Due Closed cup: 171 to 235°C (339.8 to 455°F)

Open cup: 199 to 238°C (390.2 to 460.4°F)

Black

Closed cup: 171 to 235°C (339.8 to 455°F)

Open cup: 199 to 238°C (390.2 to 460.4°F)

Yellow Not available.

	Closed cup		Open cup			
Ingredient name	°C	°F	Method	°C	°F	Method
Yellow						
Poly(oxy- 1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-

Evaporation rate: Blue Not available.

Black Not available.
Yellow Not available.

If the Not applicable.

Flammability: Blue Not applicable.

Black Not applicable.

Yellow Not applicable.

Lower and upper explosion: FlueNot available.limit/flammability limitBlackNot available.YellowNot available.

 Vapor pressure
 : ☑ue
 0.00000004 kPa (0.0000003 mm Hg)

 Black
 0.00000004 kPa (0.0000003 mm Hg)

	Vapor Pressure at 20°C		re at 20°C	Vap	or pressu	re 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	-	-	-	_

Relative vapor density : Blue Not available.

Black Not available.
Yellow Not available.

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Section 9. Physical and chemical properties and safety characteristics

Relative density: Blue 1.13
Black 1.13

Yellow Not available.

Solubility(ies) : Media Result

BlueSolublewaterSolubleBlackSolublewaterSolubleYellow

water Soluble

Partition coefficient: n-octanol/water

Auto-ignition temperature

: Blue Not available.
Black Not available.
Yellow Not applicable.
: Blue 360°C (680°F)
Black 360°C (680°F)

Ingredient name

°C

°F

Method

Poly(oxy-1,2-ethanediyl),α
360

680

-

Decomposition temperature: Blue Not available.

hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated

Black Not available.
Yellow Not available.

Blue Not available.
Black Not available.
Not available.

Yellow Not available.

Particle characteristics

Viscosity

Median particle size : Flue Not applicable.

Black Not applicable. Yellow Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : Dive 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.

10.2 Chemical stability : Note The product is stable.

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

10.3 Possibility of : ▶¶ue

hazardous reactions

Under normal conditions of storage and use,

hazardous 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.

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Section 10. Stability and reactivity

10.5 Incompatible materials : Flue May react or be incompatible with oxidizing

materials.

Black May react or be incompatible with oxidizing

materials.

Yellow May react or be incompatible with oxidizing

materials.

10.6 Hazardous decomposition products

: 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.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
B lue					
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	-
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	Rabbit	_	500 mg	_
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitization

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)

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Section 11. Toxicological information

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 the likely

routes of exposure

: Mue Black Yellow Not available. Not available.

Not available.

Potential acute health effects

Eye contact

: **B**lue Black Yellow No known significant effects or critical hazards. No known significant effects or critical hazards.

Causes serious eye irritation.

Inhalation

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

May cause respiratory irritation.

Skin contact

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

Causes skin irritation.

Ingestion

: Dlue
Black
Yellow

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

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Due Black Yellow No specific data. No specific data.

Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: **⊮**lue Black Yellow No specific data. No specific data.

Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact

: **⊮**lue Black Yellow No specific data. No specific data.

No specific data.

Adverse symptoms may include the following:

irritation redness

Ingestion : Due

Black No specific data. Yellow No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

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Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Mo known significant effects or critical hazards.

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

Carcinogenicity : Due No known significant effects or critical hazards.

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

Mutagenicity: 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
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

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Σίue 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

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Section 12. Ecological information

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	-

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
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

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal

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Section 13. Disposal considerations

of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

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.

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

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

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined **U.S. Federal regulations**

Clean Air Act Section 112

(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

Class II Substances

DEA List I Chemicals (Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

: Not listed : Not listed

Yellow

: Not listed

: Not listed

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification Blue Black Not applicable. Not applicable.

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

Composition/information on ingredients

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Section 15. Regulatory information

Name	%	Classification
Yellow 3,6,9,12-tetraoxatetradecane-1,14-diol		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

State regulations

Massachusetts: None of the components are listed.New York: None of the components are listed.New Jersey: None of the components are listed.Pennsylvania: None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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.

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 : 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.

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Section 16. Other information

Procedure used to derive the classification

Classification	Justification
EYE IRRITATION - Category 2A	Calculation method Calculation method Calculation method

History

Date of issue/Date of

revision

: 04/25/2024

Date of previous issue

: 07/04/2023

: 2

Version

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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