

SAFETY DATA SHEET

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

Section 1. Identification

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

Part no. (chemical kit) : PSS-PEGKITR1

Part no. : Green Not available.
 White Not available.
 Red Not available.

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use

Green 10 vials, 1.5 ml
 White 10 vials, 1.5 ml
 Red 10 vials, 1.5 ml

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

White

H315 SKIN IRRITATION - Category 2
 H319 EYE IRRITATION - Category 2A
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

GHS label elements

Hazard pictograms : White



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

Prevention : Green Not applicable.
 White P280 - Wear protective gloves. Wear eye or face protection.
 P261 - Avoid breathing dust.
 P264 - Wash thoroughly after handling.
 Red Not applicable.

Section 2. Hazard identification

Response	: <input checked="" type="checkbox"/> Green White	Not applicable. 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	: <input checked="" type="checkbox"/> Green White	Not applicable. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: <input checked="" type="checkbox"/> Green White	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: <input checked="" type="checkbox"/> Green White Red <input checked="" type="checkbox"/> White Red	Not applicable. None known. None known. None known. Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 25% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 8%
Other hazards which do not result in classification	: <input checked="" type="checkbox"/> Green White Red	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: <input checked="" type="checkbox"/> Green White Red	Substance Mixture Mixture
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Ingredient name	Synonyms	% (w/w)	CAS number
<input checked="" type="checkbox"/> Green Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	100	25322-68-3
White 3,6,9,12-tetraoxatetradecane-1,14-diol	3,6,9,12-tetraoxatetradecane-1,14-diol	$\geq 10 - \leq 30$	4792-15-8
Red 3,6,9,12-tetraoxatetradecane-1,14-diol	3,6,9,12-tetraoxatetradecane-1,14-diol	$\geq 1 - \leq 5$	4792-15-8

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.





Section 3. Composition/information on ingredients

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

Description of necessary first aid measures

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.
	White	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.
	Red	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.
	Red	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

Section 4. First-aid measures

	Red	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. 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.
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Most important symptoms/effects, acute and delayed

Potential acute health effects




Eye contact	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. May cause respiratory irritation.
Skin contact	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. Causes skin irritation.
Ingestion	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Green White	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: <input checked="" type="checkbox"/> Green White	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: <input checked="" type="checkbox"/> Green White	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: <input checked="" type="checkbox"/> Green White Red	No specific data. No specific data. No specific data.

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





Section 4. First-aid measures

Notes to physician	:  Green	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	White	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.
Specific treatments	:  Green	No specific treatment.
	White	No specific treatment.
	Red	No specific treatment.
Protection of first-aiders	:  Green	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.



See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media



Suitable extinguishing media	:  Green	Use an extinguishing agent suitable for the surrounding fire.
	White	Use an extinguishing agent suitable for the surrounding fire.
	Red	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:  Green	None known.
	White	None known.
	Red	None known.
Specific hazards arising from the chemical	:  Green	No specific fire or explosion hazard.
	White	No specific fire or explosion hazard.
	Red	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:  Green	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

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	:  Green	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.
	White	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.
	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.
Special protective equipment for fire-fighters	:  Green	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	White	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Red	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

Personal precautions, protective equipment and emergency procedures

For non-emergency 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 spilled 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	:  Green	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".
	White	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".
	Red	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".

Section 6. Accidental release measures

Environmental precautions	: Green	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).
	White	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).
	Red	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).

Methods and materials 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, labeled 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, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

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.
	Red	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Green	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.
	White	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

Section 7. Handling and storage

Red

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.

Conditions for safe storage, :  Green including any incompatibilities

White

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.

Red


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.

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.

Section 8. Exposure controls/personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Ingredient name	Exposure limits
 Green Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	OARS WEEL (United States, 4/2022). TWA: 10 mg/m ³ 8 hours.

[Biological exposure indices](#)

No exposure indices known.

Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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 side-shields.
- 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 | : Green | Solid. |
| | White | Solid. |
| | Red | Solid. |
| Color | : Green | White. |
| | White | Not available. |
| | Red | Not available. |
| Odor | : Green | Odorless. |
| | White | Not available. |
| | Red | Not available. |
| Odor threshold | : Green | Not available. |
| | White | Not available. |
| | Red | Not available. |
| pH | : Green | 5 to 7 |
| | White | Not available. |
| | Red | Not available. |

Section 9. Physical and chemical properties and safety characteristics

Melting point/freezing point	<input checked="" type="checkbox"/> Green	Not available.
	White	Not available.
	Red	Not available.
Boiling point, initial boiling point, and boiling range	<input checked="" type="checkbox"/> Green	250°C (482°F)
	White	Not available.
	Red	Not available.
Flash point	<input checked="" type="checkbox"/> Green	Closed cup: 171 to 235°C (339.8 to 455°F) Open cup: 199 to 238°C (390.2 to 460.4°F)
	White	Not applicable.
	Red	Not applicable.

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<input checked="" type="checkbox"/> Red 3,6,9-trioxaundecane-1,11-diol	176	348.8	-	182	359.6	-

Evaporation rate	<input checked="" type="checkbox"/> Green	Not available.
	White	Not available.
	Red	Not available.
Flammability	<input checked="" type="checkbox"/> Green	Not available.
	White	Not available.
	Red	Not available.
Lower and upper explosion limit/flammability limit	<input checked="" type="checkbox"/> Green	Not applicable.
	White	Not applicable.
	Red	Not applicable.
Vapor pressure	<input checked="" type="checkbox"/> Green	0.00000004 kPa (0.0000003 mm Hg)

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<input checked="" type="checkbox"/> White 3,6,9,12-tetraoxatetradecane-1,14-diol	0.000000232	0.000000031	-	-	-	-
Red 3,6,9,12-tetraoxatetradecane-1,14-diol	0.000000232	0.000000031	-	-	-	-

Relative vapor density	<input checked="" type="checkbox"/> Green	Not applicable.
	White	Not applicable.
	Red	Not applicable.
Relative density	<input checked="" type="checkbox"/> Green	1.13
	White	Not available.
	Red	Not available.

Solubility(ies)	Media	Result
<input checked="" type="checkbox"/> Green	water	Soluble
White	water	Soluble
Red	water	Soluble

Section 9. Physical and chemical properties and safety characteristics

Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> Green	Not available.
	White	Not applicable.
	Red	Not applicable.
Auto-ignition temperature	: <input checked="" type="checkbox"/> Green	360°C (680°F)
	White	Not applicable.
	Red	Not applicable.

Ingredient name	°C	°F	Method
<input checked="" type="checkbox"/> Red			
3,6,9-trioxaundecane-1,11-diol	349	660.2	-

Decomposition temperature	: <input checked="" type="checkbox"/> Green	Not available.
	White	Not available.
	Red	Not available.
Viscosity	: <input checked="" type="checkbox"/> Green	Not applicable.
	White	Not applicable.
	Red	Not applicable.
Particle characteristics		
Median particle size	: <input checked="" type="checkbox"/> Green	Not available.
	White	Not available.
	Red	Not available.

Section 10. Stability and reactivity

Reactivity	: <input checked="" type="checkbox"/> 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.
Chemical stability	: <input checked="" type="checkbox"/> Green	The product is stable.
	White	The product is stable.
	Red	The product is stable.
Possibility of hazardous reactions	: <input checked="" type="checkbox"/> Green	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.
Conditions to avoid	: <input checked="" type="checkbox"/> Green	No specific data.
	White	No specific data.
	Red	No specific data.
Incompatible materials	: <input checked="" type="checkbox"/> Green	May react or be incompatible with oxidizing materials.
	White	May react or be incompatible with oxidizing materials.
	Red	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Hazardous decomposition products :  Green

White

Red

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.

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


Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

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	-

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)

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.

Section 11. Toxicological information

Information on the likely routes of exposure	: <input checked="" type="checkbox"/> Green White Red	Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
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Potential acute health effects

Eye contact	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. May cause respiratory irritation. No known significant effects or critical hazards.
Skin contact	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. Causes skin irritation. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> Green White Red	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	: <input checked="" type="checkbox"/> Green White Red	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: <input checked="" type="checkbox"/> Green White Red	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: <input checked="" type="checkbox"/> Green White Red	No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: <input checked="" type="checkbox"/> Green White Red	No specific data. No specific data. 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.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

Section 11. Toxicological information

Carcinogenicity	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: <input checked="" type="checkbox"/> Green White Red	No known significant effects or critical hazards. No known significant effects or critical hazards. 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/l)
<input checked="" type="checkbox"/> Green 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

Toxicity


Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> 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
	Acute LC50 >1000000 μ g/l Fresh water	Fish - <i>Salmo salar</i> - Parr	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<input checked="" type="checkbox"/> 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	
<input checked="" type="checkbox"/> Green Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-Ethane-1,2-diol, ethoxylated	-	-	Readily	

Bioaccumulative potential

Section 12. Ecological information


Product/ingredient name	LogP _{ow}	BCF	Potential
 Green Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

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

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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 to IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

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

Section 15. Regulatory information

Not listed.

Inventory list

Canada : Not determined.

United States : Not determined.

Section 16. Other information

History

Date of issue/Date of revision : 04/30/2024

Date of previous issue : 07/09/2023

Version : 2

Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 HPR = Hazardous Products Regulations
 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

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> White SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method Calculation method Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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