# SAFETY DATA SHEET



Roofkeeper Elastomeric Shingle Coating (Clear)

## Section 1. Identification

Product identifier	: Roofkeeper Elastomeric Shingle Coating (Clear)
Product code	: Not available.
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	the substance or mixture and uses advised against
Product use	: Asphalt shingle coating.
Area of application	: Professional applications.
Supplier/Manufacturer	: Techniseal 300, avenue Liberté Candiac, QC, Canada, J5R 6X1 Tel: (514) 523-2110 Toll free: 1-800-465-7325 Fax: (450) 633-3035
e-mail address of person responsible for this SDS	: service@techniseal.com
Emergency telephone number (with hours of operation)	: CANUTEC (613) 996-6666

## Section 2. Hazard identification

Classification of the substance or mixture	: H317	SKIN SENSITIZA	TION - Category 1	
GHS label elements				
Hazard pictograms				
Signal word	: Warning			
Hazard statements	•	use an allergic skin re	eaction.	
Precautionary statements	-			
Prevention	: P280 - Wear p P261 - Avoid b	preathing vapor.	should not be allowed out	of the workplace.
Response	Take off conta	minated clothing and	SKIN: Wash with plenty of wash it before reuse. sh occurs: Get medical att	·
Storage	: Not applicable			
Disposal		e of contents and con ternational regulation	tainer in accordance with s.	all local, regional,
Supplemental label elements	: Percentage of toxicity: 28.7%		g of ingredient(s) of unkno	own acute inhalation
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## Section 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

## Other means of identification

: Not available.

### :

Ingredient name	% (w/w)	CAS number
2-butoxyethanol	1 - 5 (1)	111-76-2
propane-1,2-diol	1 - 5 (1)	57-55-6
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-	0.1 - 1 (1)	104810-48-2
dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-		
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-	0.1 - 1 (1)	104810-47-1
dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-		
2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.1 - 1 (1)	41556-26-7
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.1 - 1 (1)	82919-37-7
octhilinone (ISO)	<0.1 (1)	26530-20-1

(1) The actual concentration or actual concentration range is withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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	: 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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Most important symptoms/eff	
Potential acute health effects Eye contact	<ul> <li>No known significant effects or critical hazards.</li> </ul>

### Section 4. First-aid measures

Section 4. First-a	
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides organic materials (Various)
Special protective actions for fire-fighters	: 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

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## Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: 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.
For emergency responders	: 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".
Environmental precautions	: 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 co	ontainment and cleaning up
Small spill	: 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	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, including any incompatibilities	:	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. Keep from freezing.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
2-butoxyethanol	CA Alberta Provincial (Canada, 6/2018).8 hrs OEL: 97 mg/m³ 8 hours.8 hrs OEL: 20 ppm 8 hours.CA British Columbia Provincial (Canada, 7/2018).TWA: 20 ppm 8 hours.CA Ontario Provincial (Canada, 1/2018).TWA: 20 ppm 8 hours.CA Quebec Provincial (Canada, 1/2018).TWA: 20 ppm 8 hours.CA Quebec Provincial (Canada, 1/2014).TWAEV: 20 ppm 8 hours.CA Saskatchewan Provincial (Canada, 7/2013).STEL: 30 ppm 15 minutes.TWA: 20 ppm 8 hours.
propane-1,2-diol	CA Ontario Provincial (Canada, 1/2018). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Aerosol only. TWA: 155 mg/m <sup>3</sup> 8 hours. Form: Vapour and aerosol. TWA: 50 ppm 8 hours. Form: Vapour and aerosol.

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 measu	ures	
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. Contaminated work clothing should not be allowed out of the workplace. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

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### Section 8. Exposure controls/personal protection

	estimated.
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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

Appearance		
Physical state	Liquid.	
Color	Whitish	
Odor	Ammonia. [Slight]	
Odor threshold	Not available.	
рН	8.5 to 9.5	
Melting point	-3.5°C (25.7°F)	
Boiling point	100°C (212°F)	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Lower and upper explosive	Not available.	
(flammable) limits		
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Density	1 to 1.04 g/cm <sup>3</sup>	
Solubility	Soluble in the following materials: cold water and hot water.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Dynamic (room temperature): 1600 to 2500 mPa·s (1600 to 2500 cP)	
Flow time (ISO 2431)	Not available.	

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.			
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.			
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## Section 10. Stability and reactivity

#### **Incompatible materials**

: Reactive or incompatible with the following materials: oxidizing materials and reducing materials.

Hazardous decomposition products

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

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

LD50 Dermal	<b>B</b>		
	Rabbit	220 mg/kg	-
LD50 Oral	Rat	250 mg/kg	-
LD50 Dermal	Rabbit	20800 mg/kg	-
LD50 Oral	Rat	20 g/kg	-
LC50 Inhalation Dusts and mists	Rat	>5.8 mg/l	4 hours
LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
LD50 Oral	Rat - Male,	>5000 mg/kg	-
LC50 Inhalation Dusts and mists		>5.8 mg/l	4 hours
LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
LD50 Dermal	Rabbit	690 mg/kg	-
LD50 Oral	Rat	550 mg/kg	-
	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LD50 Dermal LD50 Oral	LC50 Inhalation Dusts and mists Rat LD50 Dermal Rat - Male, Female Rat - Male, Female Rat - Male, Female Rat - Male, Female Rat LD50 Dermal Rat - Male, Female Rat - Male, Rat - Male, Rat - Male, Rat - Male, Rat - Male, Mate - Mat	LD50 Oral LC50 Inhalation Dusts and mistsRat Rat20 g/kg >5.8 mg/lLD50 Dermal LD50 Oral LC50 Inhalation Dusts and mistsRat - Male, Female Rat - Male, Female Rat>2000 mg/kg >5000 mg/kgLD50 Dermal LD50 DermalRat - Male, Female Rat>5000 mg/kgLD50 Dermal LD50 OralRat - Male, Female Rat>2000 mg/kgLD50 Dermal LD50 OralRat - Male, Female Rat - Male, Female Rabbit

**n/Summary** : Inhalation of high concentrations of zinc oxide may cause metal fume fever (a flulike syndrome) with symptoms of headache, fever, chills, nausea and vomiting. No exposure to zinc oxide would be expected to occur in the normal use of this product.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
octhilinone (ISO)	Eyes - Severe irritant	Rabbit	-	100	-
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## Section 11. Toxicological information

Conclusion/Summary Skin	: Not available.		milligram	าร
Skin				
	<ul> <li>Not available</li> </ul>			
Even	· NUL avallable.			
Eyes	: Not available.			
Respiratory	: Not available.			
<u>Sensitization</u>				
Conclusion/Summary				
Skin	: Not available.			
Respiratory	: Not available.			
<u>Mutagenicity</u>				
Conclusion/Summary	: Not available.			
Carcinogenicity				
Conclusion/Summary	: Not available.			
Reproductive toxicity				
Conclusion/Summary	: Not available.			
Teratogenicity				
Conclusion/Summary	: Not available.			
<u>Specific target organ toxic</u>	<u>ity (single exposure)</u>			
Name		Category	Route of exposure	Target organs
2-butoxyethanol		Category 3	Not applicable.	Respiratory tract irritation

### **Aspiration hazard**

Not available.

Information on the likely	: Routes of entry anticipated: Oral, Dermal, Inhalation.
routes of exposure	

#### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

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## Section 11. Toxicological information

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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 eff	ects
<b>Conclusion/Summary</b>	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: 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)
Roofkeeper Elastomeric Shingle Coating (Clear)	5689.7	5407	N/A	N/A	92.8
2-butoxyethanol	250	220	N/A	N/A	2.1753
propane-1,2-diol	20000	20800	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1- oxopropyl]- $\omega$ -hydroxy-	N/A	2500	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2- yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1- oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	N/A	2500	N/A	N/A	N/A
octhilinone (ISO)	550	690	N/A	3	N/A

### **Other information**

: Adverse symptoms may include the following: abdominal cramps and pain. nausea or vomiting. convulsive seizures. coma. pulmonary edema. cardiac arrest or heart failure.

May be irritating to mouth, throat and stomach. May cause irritation to the gastrointestinal tract.

## Section 12. Ecological information

### **Toxicity**

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure	
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours	
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours	
propane-1,2-diol	Acute EC50 >110 ppm Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 1020000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours	
	Acute LC50 710000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- $\omega$ -hydroxy-	Acute EC50 4 mg/l	Daphnia	48 hours	
	Acute LC50 2.8 mg/l	Fish	96 hours	
	Acute NOEC 1.2 mg/l	Fish	96 hours	
	Chronic NOEC 0.23 mg/l	Daphnia	21 days	
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3-(2H-benzotriazol-2-yl)-5-( 1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl) )-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropoxy ]-		Daphnia	48 hours	
	Acute LC50 2.8 mg/l	Fish	96 hours	
	Acute NOEC 1.2 mg/l	Fish	96 hours	
	Chronic NOEC 0.23 mg/l	Daphnia	21 days	
octhilinone (ISO)	Acute EC50 107 ppb Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 47 ppb Fresh water Chronic NOEC 8.5 ppb	Fish - Oncorhynchus mykiss Fish - Pimephales promelas	96 hours 35 days	
Conclusion/Summary	: Not available	1	1	

Conclusion/Summary

: Not available.

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-butoxyethanol	301E Ready Biodegradability - Modified OECD Screening Test	95 % - 28 days	-	-
propane-1,2-diol	301F Ready Biodegradability - Manometric Respirometry Test	98.3 % - Readily - 28 days	100 mg/l DOC	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	e P	hotolysis	Biodegradability
2-butoxyethanol	-	-		Readily
propane-1,2-diol	-	-		Readily
Poly(oxy-1,2-ethanediyl), α-[3	-	-		Not readily
-[3-(2H-benzotriazol-2-yl)-5-(				2
1,1-dimethylethyl)-4-				
hydroxyphenyl]-1-oxopropyl]-				
ω-hydroxy-				
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3]	-	-		Not readily
-[3-(2H-benzotriazol-2-yl)-5-(				-
1,1-dimethylethyl)-4-				
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			hydroxyphenyl]-1-oxopropyl]- ω-[3-[3-(2H-benzotriazol-2-yl )-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropoxy ]-			

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2-butoxyethanol	0.81	<100	low
propane-1,2-diol	-1.07	-	low
Poly(oxy-1,2-ethanediyl), $\alpha$ -[3	5.9	-	high
-[3-(2H-benzotriazol-2-yl)-5-(			
1,1-dimethylethyl)-4-			
hydroxyphenyl]-1-oxopropyl]-			
ω-hydroxy-			
Poly(oxy-1,2-ethanediyl), α-[3	5.9	-	high
-[3-(2H-benzotriazol-2-yl)-5-(			
1,1-dimethylethyl)-4-			
hydroxyphenyl]-1-oxopropyl]-			
ω-[3-[3-(2H-benzotriazol-2-yl			
)-5-(1,1-dimethylethyl)-4-			
hydroxyphenyl]-1-oxopropoxy			
]-	0.07		low
bis(1,2,2,6,6-pentamethyl-	0.37	-	low
4-piperidyl) sebacate	2.45		low
octhilinone (ISO)	2.45	-	low

### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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 Classification	DOT Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

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 Annex II of MARPOL and the IBC Code

### Section 15. Regulatory information

### **Canadian lists**

**Canadian NPRI** 

: The following components are listed: 2-butoxyethanol

**CEPA Toxic substances** 

: The following components are listed: 2-butoxyethanol : Not determined.

**Canada inventory 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.

### Section 16. Other information

<u>History</u>	
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Version	: 1
Prepared by	: Sphera Solutions
Key to abbreviations	<ul> <li>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 = Internediate 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</li> </ul>

### Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method

References

: HPR = Hazardous Products Regulations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.