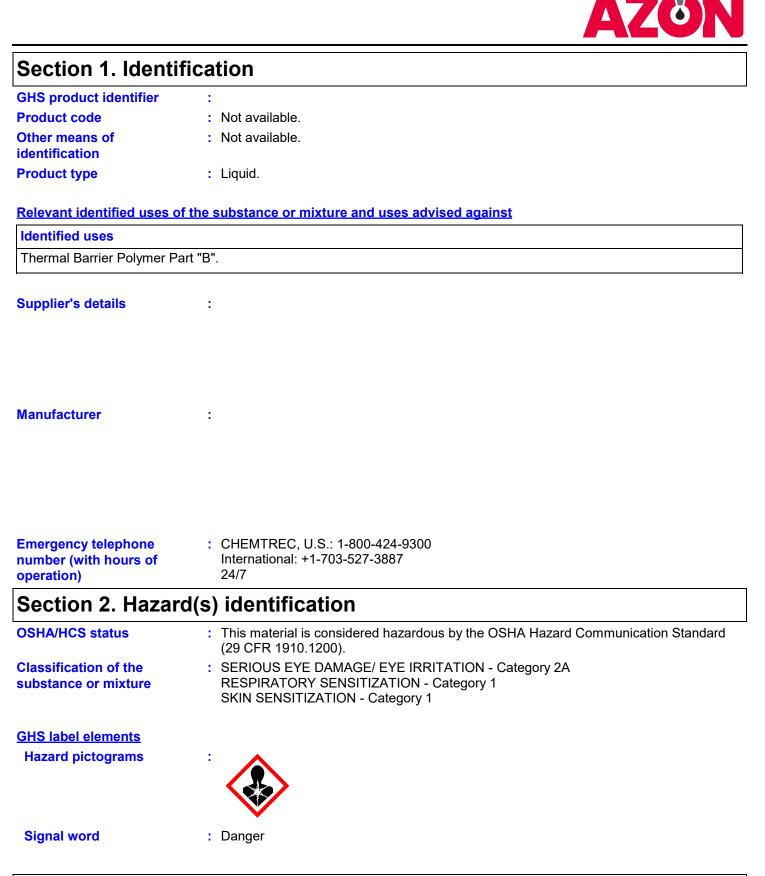
Compliant SDS for GHS - Canada WHMIS 2015

SAFETY DATA SHEET



Section 2. Hazard(s) identification Hazard statements : H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Precautionary statements **Prevention** : P280 - Wear protective gloves. Wear eye or face protection. P284 - Wear respiratory protection. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. : P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for Response breathing. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. 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 : Not applicable. : P501 - Dispose of contents and container in accordance with all local, regional, national Disposal

Hazards not otherwise classified (US)

: None known.

and international regulations.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	% (w/w)	CAS number
2,2' -Oxybisethanol	7 - 13	111-46-6
Ethanediol	1 - 5	107-21-1
Isocyanic acid, polymethylenepolyphenylene ester	0.1 - 1	9016-87-9
4,4'-Methylenediphenyl Diisocyanate	0.1 - 1	101-68-8

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

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

: 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 20 minutes. Get medical attention.

Section 4. First aid measures

Inhalation	: 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. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 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. 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/effects, acute and delayed Potential acute health effects : Causes serious eye irritation. Eye contact : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation Skin contact : May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation Adverse symptoms may include the following: 2 wheezing and breathing difficulties asthma Skin contact : Adverse symptoms may include the following: irritation redness Ingestion : No known significant effects or critical hazards. Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments : No specific treatment. **Protection of first-aiders** : 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. 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	: None known.
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
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	: 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	:	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	ont	ainment 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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	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. 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.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
2,2' -Oxybisethanol	AIHA WEEL (United States, 7/2020).
	TWA: 10 mg/m³ 8 hours.
Ethanediol	ACGIH TLV (United States, 3/2020).
	STEL: 10 mg/m ³ 15 minutes. Form: Inhalable
	fraction. Aerosol only.
	STEL: 50 ppm 15 minutes. Form: Vapor
	fraction
	TWA: 25 ppm 8 hours. Form: Vapor fraction
Isocyanic acid, polymethylenepolyphenylene ester	None.
4,4'-Methylenediphenyl Diisocyanate	ACGIH TLV (United States, 3/2020).
	TWA: 0.005 ppm 8 hours. NIOSH REL (United States, 10/2016).
	TWA: 0.05 mg/m^3 10 hours.
	TWA: 0.005 ppm 10 hours.
	CEIL: 0.2 mg/m ³ 10 minutes.
	CEIL: 0.02 ppm 10 minutes.
	OSHA PEL (United States, 5/2018).
	CEIL: 0.02 ppm
	CEIL: 0.2 mg/m ³

<u>Canada</u>

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
2,2' -Oxybisethanol	AIHA WEEL (United States, 7/2020).
	TWA: 10 mg/m³ 8 hours.
Ethanediol	CA British Columbia Provincial (Canada,
	1/2020).
	C: 100 mg/m ³ Form: Aerosol
	TWA: 10 mg/m ³ 8 hours. Form: Particulate STEL: 20 mg/m ³ 15 minutes. Form:
	Particulate
	C: 50 ppm Form: Vapor
	CA Saskatchewan Provincial (Canada,
	7/2013).
	CEIL: 100 mg/m ³ Form: Aerosol
	CA Ontario Provincial (Canada, 6/2019).
	Ceiling Limit: 10 mg/m³ Form: Inhalable
	particulate matter. Aerosol only.
	STEL: 50 ppm 15 minutes. Form: Vapor fraction
	TWA: 25 ppm 8 hours. Form: Vapor fraction
	CA Quebec Provincial (Canada, 7/2019).
	STEV: 50 ppm 15 minutes. Form: Vapor and
	mist
	STEV: 127 mg/m ³ 15 minutes. Form: Vapor
	and mist CA Alberta Provincial (Canada, 6/2018).
	C: 100 mg/m ³
Isocyanic acid, polymethylenepolyphenylene ester	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 0.07 mg/m ³ 8 hours.
	8 hrs OEL: 0.005 ppm 8 hours.
	CA British Columbia Provincial (Canada,
	1/2020). TWA: 0.005 ppm 8 hours.
	C: 0.01 ppm
	CA Ontario Provincial (Canada, 6/2019).
	Ceiling Limit: 0.02 ppm
	TWA: 0.005 ppm 8 hours.
4,4'-Methylenediphenyl Diisocyanate	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 0.005 ppm 8 hours.
	8 hrs OEL: 0.05 mg/m ³ 8 hours.
	CA British Columbia Provincial (Canada, 1/2020). Inhalation sensitizer.
	TWA: 0.005 ppm 8 hours.
	C: 0.01 ppm
	CA Quebec Provincial (Canada, 7/2019).
	Skin sensitizer.
	TWAEV: 0.005 ppm 8 hours.
	TWAEV: 0.051 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.015 ppm 15 minutes.
	TWA: 0.005 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	Ceiling Limit: 0.02 ppm
	TWA: 0.005 ppm 8 hours.

Section 8. Exposure controls/personal protection

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measu	res
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: chemical splash goggles.
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 estimated.
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	: Liquid. [Clear.]
Color	: Purple to Black.
Odor	: Slight.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling	: Not available.
point, and boiling range	
Flash point	: Closed cup: >93.3°C (>199.9°F)
Date of issue: 02/15/2022	Version: 2

Section 9. Physical and chemical properties and safety characteristics

Evaporation rate	1	Not available.
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	1	Not available.
Vapor pressure	1	Not available.
Relative vapor density	1	Not available.
Relative density	1	Not available.
Solubility	1	Slightly soluble in water.
Solubility in water	1	Slightly soluble.
Miscible with water	1	Not available.
Partition coefficient: n- octanol/water	1	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	1	Not available.
Flow time (ISO 2431)	1	Not available.
Particle characteristics		
Median particle size	1	Not applicable.

Section 10. Stability and reactivity

	5
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable. Reacts with Isocyanates.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials and alkalis.
Hazardous decomposition products	: Carbon monoxide, carbon dioxide, nitrogen oxides.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2' -Oxybisethanol	LD50 Dermal	Rabbit	11890 mg/kg	-
· · · · ·	LD50 Oral	Rat	12000 mg/kg	-
Ethanediol	LD50 Oral	Rat	4700 mg/kg	-
Isocyanic acid,	LD50 Dermal	Rabbit	>9400 mg/kg	-
polymethylenepolyphenylene				
ester				
	LD50 Oral	Rat	49 g/kg	-
4,4'-Methylenediphenyl	LD50 Oral	Rat	9200 mg/kg	-
Diisocyanate				

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2' -Oxybisethanol	Eyes - Mild irritant	Rabbit	-	50 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	1 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440	-
				mg	
	Skin - Mild irritant	Rabbit	-	555 mg	-
Isocyanic acid,	Eyes - Mild irritant	Rabbit	-	100 mg	-
polymethylenepolyphenylene					
ester					
4,4'-Methylenediphenyl	Eyes - Moderate irritant	Rabbit	-	100 mg	-
Diisocyanate	-				

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification United States

Product/ingredient name	OSHA	IARC	NTP
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-Methylenediphenyl Diisocyanate	-	3 3	-

Classification Canada

Product/ingredient name	IARC	NTP	ACGIH
Ethanediol	-	-	A4
Isocyanic acid, polymethylenepolyphenylene ester	3	-	-
4,4'-Methylenediphenyl Diisocyanate	3	-	-

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester	Category 3		Respiratory tract irritation
4,4'-Methylenediphenyl Diisocyanate	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name		Category	Route of exposure	Target organs
Isocyanic acid, polymethyle 4,4'-Methylenediphenyl Diis		Category 2 Category 2	inhalation -	respiratory syster -
Aspiration hazard				
There is no data available.				
nformation on the likely routes of exposure	: Routes of entry anticipa	ted: Oral, Dermal, Ir	nhalation.	
Potential acute health effec	<u>ets</u>			
Eye contact	: Causes serious eye irrita	ation.		
Inhalation	: May cause allergy or as	thma symptoms or b	reathing difficulties	s if inhaled.
Skin contact	: May cause an allergic sl	kin reaction.		
Ingestion	: No known significant eff	ects or critical hazar	ds.	
Symptoms related to the pl	hysical, chemical and toxic	ological characteris	<u>stics</u>	
Eye contact	: Adverse symptoms may pain or irritation watering redness	include the following	g:	
Inhalation	: Adverse symptoms may wheezing and breathing asthma		g:	
Skin contact	: Adverse symptoms may irritation redness	r include the following	g:	
Ingestion	: No known significant eff	ects or critical hazar	ds.	
Delaved and immediate eff	ects and also chronic effect	ts from short and lo	ona term exposur	e
Short term exposure				-
Potential immediate effects	: No known significant eff	ects or critical hazar	ds.	
Potential delayed effects	: No known significant eff	ects or critical hazar	ds.	
<u>Long term exposure</u>				
Potential immediate effects	: No known significant eff	ects or critical hazar	ds.	
Potential delayed effects	: No known significant eff	ects or critical hazar	ds.	
Potential chronic health ef				
General	: Once sensitized, a seve very low levels.	re allergic reaction n	nay occur when su	bsequently exposed to
Carcinogenicity	: No known significant eff	ects or critical hazar	ds.	
Mutagenicity	: No known significant eff	ects or critical hazar	ds.	

Numerical measures of toxicity Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
	3317	N/A	N/A	N/A	N/A
2,2' -Oxybisethanol	500	11890	N/A	N/A	N/A
Ethanediol	500	N/A	N/A	N/A	N/A
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	11	N/A
4,4'-Methylenediphenyl Diisocyanate	9200	N/A	N/A	N/A	1.5

Section 12. Ecological information

Toxicity Product/ingredient name Result **Species Exposure** 2,2' -Oxybisethanol Acute LC50 75200000 µg/L Fresh water 96 hours Fish - Pimephales promelas Ethanediol Crustaceans - Ceriodaphnia 48 hours Acute LC50 6900000 µg/L Fresh water dubia - Neonate Acute LC50 41000 mg/L Fresh water Daphnia - Daphnia magna -48 hours Neonate Acute LC50 8050000 µg/L Fresh water Fish - Pimephales promelas 96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2,2' -Oxybisethanol Ethanediol 4,4'-Methylenediphenyl Diisocyanate	-1.98 -1.36 4.51	100 - 200	low low low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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 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 empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

AERG : Not applicable

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

U.S. Federal regulations	: TSCA 8(a) PAIR: 4,4'-Methylenediphenyl Diisocyanate; o-(p-Isocyanatobenzyl)phenyl isocyanate; Phenyl isocyanate; Chlorobenzene
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	TSCA 8(c) calls for record of SAR : Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate; o-(p-Isocyanatobenzyl)phenyl isocyanate; 2,2'-Methylenediphenyl Diisocyanate
	Clean Water Act (CWA) 307: 4,4'-Methylenediphenyl Diisocyanate; Chlorobenzene
	Clean Water Act (CWA) 311: Aniline; Chlorobenzene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

				SARA 3	02 TPQ	SARA 30	04 RQ
lame	%		EHS	(lbs)	(gallons)	(lbs)	(gallons)
Aniline	iline ≤0.0025		Yes.	1000	117.6	5000	587.9
ARA 304 RQ : 33	33333333.	3 lbs / 15133333	33.3 kg			-	
<u>RA 311/312</u>							
RE SK	SPIRATO	E DAMAGE/ EY RY SENSITIZAT IZATION - Cate	TION - C				
omposition/information on inc	%	Class	ificatio	n			
					<u> </u>		
2,2' -Oxybisethanol	≥10 - ≤20				al) - Category 4 GE/ EYE IRRIT		togony 2P
Ethanediol	≥3 - ≤5	ACUT	E TOX	ICITY (ora	al) - Category 4		0
					GE/ EYE IRRIT		tegory 2A
socyanic acid, oolymethylenepolyphenylene ester I,4'-Methylenediphenyl Diisocyanate	≥0.3 - <1 ≥0.3 - <1	SKIN SERIO RESF SKIN SPEC (Resp SPEC EXPC ACUT SKIN SERIO	CORRO DUS EY PIRATO SENSIT SIFIC TA DIFIC TA DSURE) TE TOX CORRO DUS EY	DSION/IR /E DAMA(RY SENS FIZATION ARGET O tract irritat ARGET O - Catego ICITY (inh DSION/IR /E DAMA(nalation) - Categ RITATION - Ca GE/ EYE IRRIT ITIZATION - Ca - Category 1 RGAN TOXICIT ion) - Category RGAN TOXICIT ry 2 nalation) - Categ RITATION - Ca GE/ EYE IRRIT ITIZATION - Ca	tegory 2 ATION - Ca ategory 1 TY (SINGLE 3 TY (REPEA pory 4 tegory 2 ATION - Ca	E EXPOSURE

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Ethanediol	107-21-1	≥3 - ≤5
Supplier notification	Ethanediol	107-21-1	≥3 - ≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: Ethanediol
New York	: The following components are listed: Ethanediol
New Jersey	: The following components are listed: Ethanediol
Pennsylvania	: The following components are listed: 2,2' -Oxybisethanol; Oxydipropanol; Ethanediol
California Prop. 65	

Section 15. Regulatory information

WARNING: This product can expose you to chemicals including Aniline and 1,4-Dioxane, which are known to the State of California to cause cancer, and Ethanediol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Ethanediol	-	Yes.
Aniline	Yes.	-
1,4-Dioxane	Yes.	-

Canadian lists

Canadian NPRI

: The following components are listed: Ethanediol

- **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

Not listed.

Inventory list

Canada	: All components are listed or exempted.
United States (TSCA 8b)	: All components are active or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1	Calculation method Calculation method Calculation method
History	

History	
Date of issue/Date of revision	: 02/15/2022
Date of previous issue	: 04/15/2018
Version	: 2
Internal code	: 119-014
Prepared by	: KMK Regulatory Services Inc.

Section 16. Other information

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
	SGG = Segregation Group
	UN = United Nations
Nation to useday	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.