E	Effect	ve Date: 29 January 2025	Revisio	on: C.2	ABERCO	Language: EN		
1.	IDE	NTIFICATION OF THE SUBST	ANCE OR MIXTUR	JRE AND OF THE SUPPLIER				
	1.1. GHS product identifier.			Propylene Oxide				
		Other means of identification.		Epoxy propane				
	1.2.	Recommended use and restric	ctions on use.	Recommended: synthesis of other fumigant for spec cocoa; as a mixtu methylene chlorid a treatment chem polyolefin.	Used primarily as a r chemicals and pol ific dried fruits, nuts ire with CO2; as a s le; acid scavenger; nical for removing re	n intermediate in the ymers; as a s, herbs, spices, and stabilizer for pH control agent; as ssidual from crude		
				Advised Against: Consumer use.				
	1.3.	Supplier's details.		Name:	ABERCO Inc. c/o Balchem Corp	oration		
				Address:	5 Paragon Drive S Montvale, NJ 0764 USA	Suite 201 45		
				Phone number: Fax number:	+1 845-326-5611 +1 845-326-5706	(Cust Serv)		
				Internet: Email:	www.balchem.con sds@balchem.cor	<u>n</u> n		
	1.4.	Emergency phone number.		CHEMTREC: CCN#1625	1 800-424-9300 +1 703-527-388	(USA) 7 (International)		

2. HAZARDS IDENTIFICATION					
2.1. GHS classification of the substance or mixture and any national or regional information.	Flammable Liquid: Category 1 Acute toxicity: Category 4 (Inhalation) Category 4 (oral) Category 4 (dermal) Skin corrosion/ irritation: Category 2 Serious eye damage/ eye irritation: Category 2 Specific target organ toxicity, single exposure; Respiratory tract irritation: Category 3				
	Germ cell mutagenicity: Category 1B Carcinogenicity: Category 1				
2.2. GHS label elements, including		H224:	Extremely flammable liquid and vapour.		
precautionary statements.		H302:	Harmful if swallowed		
	Danger	H312:	Harmful in contact with skin		
		H315:	Causes skin irritation		
		H319:	Causes serious eye irritation		
		H332:	Harmful if inhaled		
		H335:	May cause respiratory irritation		
		H340:	May cause genetic defects		
		H350:	May cause cancer		
		P201:	Obtain special instructions before use.		
		P202:	Do not handle until all safety precautions have been read and understood.		
		P210:	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.		
		P233:	Keep container tightly closed.		
		P240:	Ground/bond container and receiving equipment.		

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		P241:	Use light	explosion-proof ele ing/ equipment.	ectrical/ ventilating/
		P242:	Use	only non-sparking	tools.
		P243:	Take disc	e precautionary me harge.	asures against static
		P261:	Avoi	d breathing gas/va	pours.
		P264:	Was	h hands thoroughly	/ after handling.
		P270:	Do r prod	not eat, drink or smo luct.	oke when using this
		P271:	Use	only outdoors or in	a well-ventilated
		P280:	Wea eye	ar protective gloves protection/face pro	/protective clothing/ tection.
		P281:	Use requ	personal protective iired.	e equipment as
		P301+ P312:	IF S or de	WALLOWED: Call octor/physician if yo	a POISON CENTER
		P330:	Rins	e mouth.	
		P302+	IF O	N SKIN: Wash with	n plenty of soap and
		P352:	wate	er.	
		P303+	IF O imm	N SKIN (or hair): R	lemove/lake off
		P353:	skin	with water/shower.	
		P362+	Take	e off contaminated	clothing and wash
		P363:	befo	re reuse.	
		P332+	lf sk	in irritation occurs:	Get medical
		P304+	IF IN	JHAI ED: Remove i	person to fresh air
		P340:	and	keep comfortable f	or breathing.
		P305+	IF IN	I EYES: Rinse cau	tiously with water for
		P351+	seve	eral minutes. Remo	ove contact lenses, if
		P338: P337+	lf ev	e irritation persists	Get medical
		P313:	advi	ce/attention.	Cotinicalical
		P312:	Call if yo	a POISON CENTE u feel unwell.	R or doctor/physician
		P308+ P313:	IF e: advi	xposed or concerne ce/attention.	ed: Get medical
		P321+ P322:	Spe SDS	cific treatment: See	e first aid section of
		P370+ P378:	In ca cher spra	ase of fire, use carb nical, alcohol resist ly for extinction.	oon dioxide, dry tant foam or water
		P403+ P235:	Stor	e in a well-ventilate	ed place. Keep cool.
		P405:	Stor	e locked up.	
		P501:	Disp with regu	ose of contents/co local/regional/natic llation.	ntainer in accordance onal/ international
2.3. Other hazards which do not re- classification or are not covere the GHS.	sultin None d by	·	-		
3. COMPOSITION/INFORMATION ON					

3.	. COMPOSITION/INFORMATION ON INGREDIENTS		
	3.1. Substance:		
	Chemical identity.	Propylene Oxide	

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Common name, synonyms, etc.		PO; PPO; 1,2-Ej Ethylene Oxide, Epoxypropane	ooxypropane; Prope Methyloxirane, Prop	ne Oxide, Methyl pylene Epoxide,			
CAS number, EC number, etc.		CAS#: 75-56-9; Formula: C3H6C Molecular Weigh	EC#: 200-879-2 (frc) it: 58.08 g/mol	om EINECS)			
	Impurities and stabilizing additive themselves classified and which the classification of the substan	ves which are n contribute to ce.	Contains no othe influence the cla	er components or in ssification of the pro	purities which will oduct.		
3.2.	Mixture:						
	The chemical identity and conce	entration or	Chemical Identi	ty: Concentra	ti CAS No.:		
	are bazardous within the mean	ng of the GHS	Propylene Oxide	100%	75-56-9		
	and are present above their cut	off levels.	Components Not Lis OSHA Hazard Com 1910.1200)	sted Are Not Consid munication Standar	lered Hazardous By rd (29 CFR		
4. FIRS 4.1.	 FIRST AID MEASURES 4.1. Description of first aid measures. 		 Eye contact: Immediately flush eyes, including the entire surface of the eyes and under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Obtain medical attention immediately. NOTE: Never wear contact lenses when working with propylene oxide. Skin contact: Immediately flush skin thoroughly with water for at least 15 minutes while removing contaminate clothing and shoes. Obtain medical attention immediately. Wash clothing before reuse and discard contaminated leather articles such as shoes and belts. Inhalation: For significant exposure to any nuisance particles (dust or mist), remove to fresh air and, if there is difficulty breathing, get medical attention. If breathing has stopped, give artificial respiration then have qualified personnel administer oxygen, if needed. Get immediate medical attention. Ingestion: If patient is conscious give plenty of water (minimum of two glasses) but DO NOT INDUCE VOMITING. This material is corrosive. Keep head lower than hips to avoid aspiration, should vomiting occur. Get medical attention immediately Medical Conditions Aggravated by Exposure: Persons with pre-existing skin, kidney, liver and respiratory disorders may be at increased risk from 				
4.2.	4.2. Most important symptoms/effects.		Signs and Symptoms of Overexposure: Effects include severe eye, skin and respiratory irritation or burns, skin rash, blistering. Effects of central nervous system depression include excitement, headache, dizziness, loss of coordination, narcosis, drunkenness, nausea, vomiting, collapse, coma and respiratory arrest. Effects from swallowing may include severe irritation and burns to the gastrointestinal tract, nausea, vomiting, diarrhea, central pervous system depression and difficulty breathing				

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4.3. Indication of immediate medical special treatment needed, if neo	attention and cessary.	Note to Physicia may cause cough edema, or chemic Lung injury has be Respiratory effect respiratory distres chemical burn is p any thermal burn. however, consider charcoal slurry.	n: Propylene oxide ing, dyspnea, nonca al pneumonitis. Cys een observed in exp s may be delayed. s. Consider oxyger oresent, decontamin No specific antidot r gastric lavage and	is an irritant that ardiogenic pulmonary anosis has occurred. erimental animals. Evaluate for a administration. If a ate skin and treat as e is known, administration of a

5.	FIREFIGHTING MEASURES	
	5.1. Suitable (and unsuitable) extinguishing media.	Carbon dioxide, dry chemical, alcohol resistant foam or water spray for small fires. Water spray, water for or alcohol resistant foams for large fires. Liquid will float and may reignite on the surface of the water. Water spray can be used to reduce flame intensity, cool fire-exposed containers and dilute spills to render non-flammable.
	5.2. Specific hazards arising from the chemical.	Extremely flammable vapor. Vapors may cause flash fire and can form explosive mixtures with air. May polymerize explosively when involved in a fire or in contact with incompatible materials. Causes severe eye, skin and gastrointestinal irritation or burns and respiratory tract irritation with central nervous system effects. Harmful if swallowed or absorbed through the skin. UNUSUAL FIRE AND EXPLOSION HAZARDS: Liquid propylene oxide is lighter than water (floats) and vapors are heavier than air and may travel along ground long distances to sources of ignition, and then flash back. Containers are fitted with metallic plugs which melt and release contents when temperature increases to a range of 157-170 °F (69-77 °C). Vapors are extremely flammable and are readily ignited by static charge, sparks and flames at concentrations above 1.7%.
	5.3. Special protective equipment and precautions for firefighters.	Fire-fighters should wear NIOSHapproved self- contained breathing apparatus (SCBA) operated in the pressure-demand mode and full chemical-resistant protective clothing. Evacuate all personnel from danger area and keep upwind. Immediately cool containers with water spray from maximum safe distance. Remove containers from fire area, if without risk. Refer to the most current edition of the "North American Emergency Response Guidebook" for isolation and evacuation distances.

6	. ACCIDENTAL RELEASE MEASURES	
	6.1. Personal precautions, protective equipment and emergency procedures.	Wear appropriate protective clothing as described in Section 8.
		For non-emergency and emergency personnel: Treat any propylene oxide leak as an emergency. All cleanup personnel must wear full protective equipment. Evacuate all personnel from the area except those directly engaged in stopping the leak or in cleaning up.

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6.2. Environmental precautions.		Dike runoff water, if possible, to prevent contaminated water from entering sewers, ditches, streams and ponds. It is mandatory to call the National ¬Response Center (800-424-8802) if 100 pounds (45.4 kg) or more is spilled or released to the environment.				
6.3. Methods and materials for containmentand cleaning up.		Eliminate all ignition sources if this can be done safely. Propylene oxide/air mixtures ignite readily and may detonate. Use water fog or spray to disperse vapors. Blanket spill with water fog or alcohol foam to reduce vapors. Collect with an inert absorbent such as dry sand or earth and place into an appropriate container for disposal. Do not use clay-based absorbents or combustible materials. Do not flush to the sewer.				
7. HANDLING AND STORAGE						
7.1. Precautions for safe handling.		Wear all recomme when handling this and emergency re Ground and bond receiving containe equipment, includ containers retain p Do not pressurize expose empty cor Protect containers inspect them for c	ended protective clo s material. Have es esponse procedures shipping container, er. Use non-sparkin ing explosion proof product residues and cut, weld, braze, su tainers to heat, spa from physical dama racks, leaks or fault	thing and devices tablished handling in place prior to use. transfer line, and g tools and ventilation. Empty d can be dangerous. older, drill, grind or irks or open flames. age and regularly y valves.		
7.2. Conditions for safe storage, inc incompatibilities.	luding any	Storage Segrega dry, well-ventilated chemicals and sou drums upright; sed slide; and move in suitable hand truc SUNLIGHT. Shipping and Sto 173.201 and 173.3 stored in a unique specification cylind charged into the c oxide, bringing the Before returning c container with nitre valves and replace container valves shipment. In add edition of NFPA P Combustible Liqui	tion: Store propyle d area away from in urces of ignition. St cure containers tight a carefully supervis k. DO NOT STORE orage Containers: 243) Propylene oxid UN 1A1 specification ders and portable ta ontainer after filling total container pre- ontainer to supplier ontainer to supplier ogen to 50 psig tota e valve plugs tightly and plugs for leak lition, please refer to ublication NFPA 30 ds Code.'	ne oxide in a cool, compatible ore cylinders and dly; do not drag or sed manner with a E IN DIRECT (See 49 CFR le is shipped and on drum, and DOT inks. Nitrogen is with propylene ssure up to 50 psig. , pressurize il pressure; close in outlets. Check (s prior to o the most current , 'Flammable and		
		Incompatibilities oxidizing agents, o catalysts, epoxy re	: Avoid acids, bases clay-based absorbe esins, anhydrous me	s, peroxides, nts, polymerization etal chlorides.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	N			
8.1. Control parameters.		Exp	oosure Limits	
	Source	TWA (8-hr)	STEL (15-min)	OTHER
	OSHA	100 ppm (240 mg/m3)	No applicable information found	No applicable information found

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		ACGIH	2 pp (4.8 m)	om g/m3)	No applicabl information found	e 400 ppm IDLH
8.2. Appropriate engineering controls.		Propylene oxide is flammable. All electrical devices used in areas processing or handling propylene oxide must be engineered and designed to the applicable local electrical/fire codes. Safeguards can include designing electrical devices as explosion-proof and/or intrinsically safe. When considering engineering controls, users of propylene oxide should consult the current edition of NFPA 30 (Flammable and Combustible Liquids Code). Ventilation: Install and operate general and local exhaust ventilation systems powerful enough to maintain airborne levels of propylene oxide below the OSHA PEL in the worker's breathing area. Ventilation systems must be of maximum explosion-proof design. Emission controls must be in compliance with Federal, State and local regulations. See NFPA 30 (Flammable and Combustible Liquids Code). Safety Showers: Have eyewash stations, emergency deluge showers, and washing facilities available in all work areas.				
		Design all engineering systems to be explosion-proof in any area where vapor may be present. Container and system must be electrically grounded/bonded before unloading. Practice good personal hygiene; always wash thoroughly after using this material. Do not eat, drink or smoke in work area.				
 8.3. Individual protection measures, such as personal protective equipment. Eye protection: Always wear chemical safety glasses. If splashing may occur, wear a full face shield as a supplementary protective measure over safety glasses. NEVER WEAR CONTACT LENSES when working with propylene oxide. Skin protection: Wear impervious gloves; boots; aprons; head cover; and clean impervious body-covering clothing to prevent any possibility of skin contact. Launder contaminated clothing. Respiratory protection: Refer to OSHA respirator regulations cited at 29 CFR 1910.134. For short-term or limited single-use situations, an approved air-purifying respirator with a cartridge for organic vapors is recommended. However, the limitations of using air-purifying respirators should be clearly understood. Otherwise, wear a NIOSH-approved supplied air respirator with full face piece or NIOSH-approved self-contained breathing apparatus (SCBA) operated in positive pressure mode. 						
9. PHYSICAL AND CHEMICAL PROP	PERTIES	4:				

9.1. Information on basic physical and chemical properties.				
Appearance (physical state, color, etc.).	Colorless liquid			
Odor.	Sweet, Ether-like odor			
Odor threshold.	200 ppm			
pH.	7, neutral (100 g/L in water)			
Melting point/freezing point.	-169 ºF (-111.9 ºC)			
Initial boiling point and boiling range.	94 °F (34.2 °C)			

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Flash point.		Tag Closed Cup: -35 °F (-37.2 °C)			
Evaporation rate.		100% volatile by	/olume		
Flammability (solid, gas).		Flammable			
Upper/lower flammability or ex	plosive limits.	Upper flammable	limit: 38.5% vol/v	ol	
		Lower flammable	limit: 1.7% vol/	/ol	
vapor pressure.		455 mmHg @ 20	٠ <u>ـ</u>		
Vapor density.		2.0 (Air = 1)			
Relative density.		0.833 at 20 °C			
Solubility (ies).		39.5% in water @ 20 °C			
Partition coefficient: n-octanol/	water.	0.03			
Auto ignition temperature.		869 °F (465 °C)	869 °F (465 °C)		
Decomposition temperature.		No applicable info	No applicable information found		
Viscosity.		0.29 centipoise at	77 °F		
Oxidizing properties.		Not an oxidizer			
Corrosivity		Not Corrosive			
10 STABILITY AND REACTIVITY					
10.1. Reactivity		Material is stable	e for extended period	s in closed, airtight	
		pressurized cont	ainers at room tempe	erature, under normal	
		storage and han	dling conditions. Vap	ors may explode	
		when exposed to	o common ignition so	urces.	
10.2. Chemical stability.		Stable.			
10.3. Possibility of hazardous reaction	ons.	Polymerization r	eaction can occur wh	en propylene oxide	
		is contaminated	or when heated.		
10.4. Conditions to avoid (e.g., static	: discharge,	Avoid contact of	propylene oxide with	incompatible	
shock or vibration).		chemicals. Prev	ent exposure to all so	ources of ignition	
		such as heat, fla	me, lighted tobacco p	products or electrical	
		or mechanical s	Darks.		
10.5. Incompatible materials.		See section 7.2			
10.6. Hazardous decomposition products.		Propylene oxide	undergoes thermal d	ecomposition to	
				Dide gases.	
11. TOXICOLOGICAL INFORMATION					
11.1. Information on the likely routes	of exposure	Inhalation: eve	contact: skin conta	ct/absorption.	
(inhalation, ingestion, skin and	eye contact);	initialación) eye			
11.2. Symptoms related to the physi	cal, chemical	Eye Contact: Lie	quid propylene oxide	is severely irritating	
and toxicological characteristic	s;	and corrosive to t	he eyes and contact	can cause swelling of	
		the conjunctiva a	nd irreversible cornea	al injury. Vapors	
		may cause eye ir	ritation, tearing, redno	ess and swelling of	
		Skin Contact: P	rolonged contact with	liquid propylene	
		oxide can cause	severe irritation with i	redness, pain, severe	
		burns, and format	tion of blisters. Prop	/lene oxide may be	
		absorbed by the	skin in harmful amoui	nts causing systemic	
		effects similar to	those listed under ing	jestion and	
		inhalation. Propy	lene oxide is a skin s	ensitizer and some	
		individuals may s	uffer an allergic skin	reaction. Skin	
		contact may also	cause allergic contac	a dermatitis in some	
		than undiluted m	ais. Dilute solutions f aterials	nay be more initiating	
		Inhalation Inhal	ing concentrated van	or may cause	
		serious health eff	ects, possibly death	Inhalation may	
			embrane and respira	tory irritation, CNS	
		depression, naus	ea, vomiting, lachrim	ation, dypsnea,	
		changes in saliva	ry glands, iritis, musc	le weakness,	
			ness, coughing, narco	osis, drunkenness,	
			ination.		

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	Kevis	NOTE: Propylene of ppm) and the sens protection against in Ingestion: This re expected to cause and throat, abdomi coma. Aspiration r	Divide has a high odd e of smell may not p its toxic effects elatively unlikely rout severe irritation and nal pain, nausea, vo may occur during sw	cor threshold (> 200 provide adequate the of exposure is d burns of the mouth pomiting, collapse and vallowing or vomiting,
11.3. Delayed and immediate e chronic effects from short- exposure;	fects and also and long-term	resulting in lung da Eye Contact: No Skin Contact: Pro delayed secondary Inhalation: Studie effects such as gro	mage. applicable informati longed or repeated / burns, ulcers or su s with animals have pwth depression, lur	on found. exposure may cause perficial scarring. shown chronic ng and slight liver
		injury. Ingestion: Studie effects such as los slight liver injury. <u>Carcinogenicity</u> : OSHA: Not classif ACGIH classifies pro anticipated to be a IARC classifies pro carcinogenic to hu NIOSH classifies p occupational carcin	s with animals have s of body weight, ga fied. propylene oxide as " with unknown relev pylene oxide as "RA human carcinogen pylene oxide in Gro mans). propylene oxide as a nogen.	A3" – confirmed astric irritation and A3" – confirmed ance to humans. HC" (reasonably). Dup 2B (possibly a potential
11.4. Numerical measures of toxicity toxicity estimates).	(such as acute	Inhalation: LC ₅₀ (4 hr. expose 4000 ppm (male ra Various mammalia concentrations of p mucous membrand depression, lacrim glands, nausea, vo Chronic Inhalatio similar to those ob Acute Dermal: Sta- minutes – severe i for this product is – Chronic Dermal: available on this pr Eye: Standard Dr irritation. Acute Ingestion: 380 mg/kg, rat Chronic Ingestion changes in the bra Carcinogenicity: cancers at the site Sarcomas occurred Mutagenicity: Pro- mutagenic in expet typhimurium, esch spermatids, and ne on mutagenicity is causes DNA stram- vitro. The mean cl with more than 20 significantly increa	ure) at) an species exposed propylene oxide had e irritation, central n ation, dypsnea, cha pmiting, iritis and mu n: Symptoms of ch served in acute stud andard Draize test, i rritation. The acute 1245 mg/kg. No chronic dermal to roduct. aize test, rabbit – 20 The acute oral LD50 n: A single oral stud in, liver and lung. Propylene oxide app of exposure in expo d at injection sites, a with chronic exposu opylene oxide has b rimental animals ince erichia coli, drosoph eurospora crassa as inconclusive althou d breaks in human o hromosome aberrati years exposure to p	to lethal symptoms of ervous system nges in salivary iscle weakness. ronic exposure are dies. rabbit – 50 mg/6 dermal rabbit LD ₅₀ oxicity datum is) mg – severe 0 for this product is: y in rats showed pears to induce erimental animals. and nasal and GI re. een found to be cluding salmonella nila spermatozoa and asays. Human data gh propylene oxide diploid fibroblasts in ion rate in workers propylene oxides was

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	Neurotoxicity:Ihas caused CNSheadache, motorcoma, and neuroPeripheral neurowith experimentaReproductive Efeffects have beerTeratology:Inharats exposed to p500 ppm showedabnormalities.Target Organs:the skin, eyes, re	n high concentrations effects, including CN weakness, loss of co pathy in experimenta bathy has been repor l animals. fects: Effects on fer n noted in experiment alation development f ropylene oxide vapor fetotoxicity and deve Overexposure to this spiratory system, rep	s propylene oxide IS depression, bordination, ataxia, I animal studies. ted in chronic studies tility and paternal tal animals. toxicity studies with r at concentrations of elopmental s product may affect roductive system

12. ECOLOGICAL INFORMATION	
12.1. Ecotoxicity (aquatic and terrestrial, where	Acute LC ₅₀ data:
avaliable).	170 mg/L/24 hr, goldfish (Carassius auratus)
	89 ppm/96 nr, mullet
12.2. Persistence and degradability.	Chemical Fate Information: BODT (BOD Theoretical): 8%. If released to the atmosphere, propylene oxide will react in the vapor phase with photochemically produced hydroxyl radicals with an estimated half-life of approximately 30 days. Atmospheric removal by rainfall may occur. If released to water, propylene oxide will hydrolyze at estimated half-life rates of 11.6 days (at pH's 7-9) and 6.6 days (at pH 5) at 25 deg C.) Adsorption to sediment and reaction with photochemically produced hydroxyl radicals in water are not expected to be
12.3. Bioaccumulative potential.	Log octanol/water partition coefficient (log Kow) is low. Partitioning from water to oil is low. Bioconcentration is not expected to occur due to high water solubility and a low log Kow. Bioconcentration in aquatic organisms is not expected to be an environmentally important fate process.
12.4. Mobility in soil.	If released to soil, propylene oxide is expected to be susceptible to leaching and chemical hydrolysis in moist soils. It is expected to evaporate relatively rapidly from dry soil surfaces.
12.5. Results of PBT and vPvB	No applicable information found.
12.6. Other adverse effects.	No applicable information found.

13. DISPOSAL CONSIDERATIONS	
13.1. Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.	When disposed, propylene oxide is a RCRA hazardous vaste with waste code D001 (ignitability). DO NOT VCINERATE ANY PROPYLENE OXIDE CONTAINERS . vispose of waste materials in accordance with all pplicable Federal, State and local laws and regulations.

14. TRANSPORT INFORMATION 14.1. UN number. 14.2. UN proper shipping name. Propylene Oxide

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14.3. Transport hazard class (es).		<u>DOT</u> Primary: 3 (Flammable Liquid); Reportable Quantity 100 lb (45.4 kg)			
			<u>IMO</u> Primary: 3 (Flamr	nable Liquid)	
			<u>TDG (from or with</u> Primary: 3 (Flamn	<u>iin Canada)</u> nable Liquid)	
			Shipments of resi considered hazar	dual amounts of pro dous material. All fa	pylene oxide are cilities shipping or
			All facilities handli than 3,000 liters (security plan (49)	ous material (49 CF ing propylene oxide 792 gallons) must a CFR 172 00 – 804	R 107, Subpart G). in containers greater lso maintain a written 49 CFR 172 704).
14.4 Packing group	ifannlicable				
14.5 Marine pollutar	nt(Yes/No)		No		
14.6. Special precaut	tions which a user r	eeds to be	See Section 7.2		
aware of or needs to comply with in connection with transport or conveyance either within or outside their premises.					
14.7. Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code.		No applicable infor	mation found.		
15. REGULATORY INF	ORMATION	agulationa an	acific for the product	tinguation	
IIS Fodoral		Reportable (Quantity - 100 lb S	action 103 (40 CER	302 4)
		Reportable			502.4)
	CVVA:	Release into	a waterway may re		ie National
	FDA/USDA	Follow Good	Manufacturing Pra	02 (40 CFK 110.4)	•
FIFRA: This chemical is a pesticide product registered by the United Sta		he United States			
		Environmer	ntal Protection Agen	cy and is subject to	certain labeling
		requiremen	ts under federal pes	sticide law. These	· ·
		requiremen	ts differ from the cla	ssification criteria a	nd hazard
		Information	required for safety (Jata sneets (SDS), a	and for workplace
		required on	the pesticide label i	is reproduced below	. The pesticide label
		also include	es other important in	formation, including	directions for use.
		EPA Regist	ration No. 47870-1		

DANGER! Skull and crossbones CORROSIVE. Fatal if swallowed. Fatal if absorbed through skin. Fatal if inhaled. Causes irreversible eye damage. Causes skin burns. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Exposure may cause suffocation and death. Do not breathe vapors or fumes. OSHA: This product is considered hazardous under the GHS guidelines of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. PSM: This product is subject to Process Safety Management (29 CFR 1910.119). RCRA: If discarded in purchased form, this product is not a listed or characteristic hazardous waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24)

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	RMP:	Listed under the EPA Chemical Management Plan: 40 CFR 68.	Listed under the EPA Chemical Accidental Prevention Provisions (Risk Management Plan: 40 CFR 68.130) as a Flammable with a 10000 lb			
	SARA TITLE II	I: Section 302 Extremely Hazardou Threshold Planning Quantity (40 Section 304 – Listed 100 lb Rep Section 311/312 Hazard Catego Sudden Release (40 CFR 370.6 Section 313 Toxic Chemicals – I	Section 302 Extremely Hazardous Substances – Listed; 10000 lb Threshold Planning Quantity (40 CFR 355 Appendix A) Section 304 – Listed 100 lb Reportable Quantity (40 CFR 302.5) Section 311/312 Hazard Categories – Acute, Chronic, Fire, Reactive, Sudden Release (40 CFR 370.66) Section 313 Toxic Chemicals – Listed (40 CFR 372.65)			
	TSCA:	On TSCA inventory.				
	Other EPA	PA EPA list of Hazardous Air Contaminants: Listed EPA Organic Hazardous Air Pollutant (HAP) list (40 CFR 61.01) EPA list of Pesticide Chemicals (40 CFR 180.491): Listed EPA NESHAPS (40 CFR 63.100-106) VOC Rule: 100% VOC		0 CFR 61.01): Listed : Listed		
	FDA/USDA:	Not applicable.				
US State:	California Proposition 65: Listed; cancer hazard. Notice: This product contains a chemica known to the State of California to cause cancer. California Director's List: Listed Florida Hazardous Substance List: Listed Massachusetts Extraordinarily Hazardous Substance List: Listed Minnesota Hazardous Substance List: Listed New Jersey Hazardous Substance List: Listed sn 1615 Pennsylvania Right-to-know List: Listed (Special Hazardous Substance; Environmental Hazardous Substance)					
Canadian:	DSL:	Listed as methyloxirane (publisl	ned 21 December 2	011)		
	WHMIS:	Ingredient Disclosure List: Liste Classification: B2; D1B; D2A; D	d 1%, item 1365 (13 02B; F	319)		
	This SDS is no Controlled Pro	it intended for use in Canada and my duct Regulations.	y not comply with th	e Canadian		
EU:	CLP: EINECS: REACH: Safety Data Sheets:	This SDS is not intended for use	in the European Un	ion.		
15.2. It shall be indicated if a chemical safety assessment has been carried out for the substance or the mixture by the supplier		I Not applicable.				

16. OTHER INFORMAT	TION INCLU	DING INFORMATION ON PREPARATION AND REVISION	
Reason for Issue:	New	Reformatted per OSHA GHS. Added part 10.1. Indicated SDS is for Canada or EU. Added metallic plug info to 5.2. Added 'Sudde SARA. Completed spell check. Updated citations. Corrected RQ 6.2.	not intended en Release' to in Section
	A	Remove contact information for Canutec removed	
	В	Added Corrosivity to section 9 physical and chemical properties to support 29 CFR 1910.119(d)(1)	
	С	Modified 8.3 to add air purifying respirators. Format Modification	1/18/2016
Risk Phrases Used:	See Section	n 2.	
Hazard Ratings:	The following NFPA hazard ratings are recommended for this product: Fire – 4; Health – 3; Reactivity – 2; Specific Hazard – Personal Protection Code = X (Consult your supervisor or standard operating procedures for special handling directions.)		
For safe handling, refer t Manufacturing, Processi	o NFPA 654	, Standard for the prevention of Fire and Dust Explosions from the Iling of Combustible Particulate Solids.	

Manufacturing, Processing, and Handling of Combustible Particulate Solids.

THE FOLLO	THE FOLLOWING ABBREVIATIONS MAY BE USED IN THIS DOCUMENT:		
ACGIH	American Council of Governmental Industrial Hygienists		
AICS	Australian Inventory of Chemical Substances		

Effective Date: 29 January 2025	Revision: C.2	ABERCO	Language: EN

CAS	Chemical Abstract Service
	Company Abstract Octore
	Code of Ecoloral Poortilations
	Close of rederar regulations
	Department of Transportation
D.U.T.	Department of Hainsportation
DSL ECro	Domestic Substance List (Canada)
EC ₅₀	Elective concentration which induces a response natiway between the baseline and maximum.
EC	European Community
	Existing Chemicas List (Kolea)
EINECS	European Inventory of Existing Commercial Substances
EU	
FDA	Food and Drug Administration
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
GHS	Globally Harmonized System
IBC	International Bulk Chemical Code
IDLH	Immediately Dangerous to Life and Health
Kst	Deflagration Index
LC ₅₀	Lethal concentration for 50% mortality of subject species
LD ₅₀	Lethal dose for 50% mortality of subject species
LDLO	Lethal dose low; the lowest dose of a substance introduced by any route other than inhalation reported
	to have caused death in humans or animals.
LEL / LFL	Lower Explosive Limit / Lower Flammable Limit
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety Health Administration
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PBT	Persistent Bioaccumulative Toxic
PEL	Permissible Exposure Limit (default 8 hour day, 40 hour week TWA)
PSM	Process Safety Management
RCRA	Resource Conservation and Recovery Act
REACH	Registration, Evaluation, Authorization and Restriction of Chemical Substances
REL	Recommended Exposure Limit (default 10 hour day, 40 hour week TWA)
RMP	Risk Management Plan
SARA	Superfund Amendment and Reauthorization Act
STEL	Short Term Exposure Limit (default 15 minute TWA)
TDLO	Lowest dose to which humans or animals have been exposed and reported to produce a toxic effect
	other than cancer
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UFL	Upper Flammable Limit
USDA	United States Department of Agriculture
USDA vPvB	United States Department of Agriculture

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.