

Epoxy 100 'A' Concrete Gray ICP Construction Inc

Version No: 1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **11/20/2023** Print Date: **11/20/2023** S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	Epoxy 100 'A' Concrete Gray
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Specialty flooring resin
--------------------------	--------------------------

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction Inc	
Address	150 Dascomb Road Andover MA 01810 United States	
Telephone	1-866-667-5119 1-978-623-9987	
Fax	Not Available	
Website	Website www.icpgroup.com	
Email	sds@icpgroup.com	

Emergency phone number

Association / Organisation	ChemTel
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

SECTION 2 Hazard(s) identification

Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 2

Label elements

Hazard pictogram(s)





Signal word

Warning

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Version No: **1.1** Page **2** of **12** Issue Date: **11/20/2023**

Epoxy 100 'A' Concrete Gray

Print Date: 11/20/2023

H351 Suspected of causing cancer.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	

Precautionary statement(s) Prevention

P201 Obtain special instructions before use.	
P280 Wear protective gloves, protective clothing, eye protection and face protection.	
P261 Avoid breathing mist/vapours/spray.	
P202 Do not handle until all safety precautions have been read and understood.	
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.

Precautionary statement(s) Response

P308+P313	P308+P313 IF exposed or concerned: Get medical advice/ 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.		
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313 If eye irritation persists: Get medical advice/attention.		
P302+P352	P302+P352 IF ON SKIN: Wash with plenty of water and soap.	
P332+P313 If skin irritation occurs: Get medical advice/attention.		
P362+P364 Take off contaminated clothing and wash it before reuse.		

Precautionary statement(s) Storage

P405	Store locked up.
------	------------------

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

%[weight]	Name
10-30	polyamine adduct
0.5-1.5	<u>tetraethylenepentamine</u>
0.5-1.5	bis(2-aminopropyl ether) propoxylated
1-5	polypropylene glycol
15-40	Titanium Dioxide Ti02
0.1-1	carbon black
0.1-1	ethylene glycol
	10-30 0.5-1.5 0.5-1.5 1-5 15-40 0.1-1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

If this product comes in contact with the eyes:

Eye Contact

- Wash out immediately with fresh running water.
 Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

- If skin contact occurs:

 Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

 Version No: 1.1
 Page 3 of 12
 Issue Date: 11/20/2023

 Print Date: 11/20/2023
 Print Date: 11/20/2023

Epoxy 100 'A' Concrete Gray



Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

- ▶ Foam
- ► Dry chemical powder.

Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as
--

Chariel protective agreement and proceeding for fire fighters

Special protective equipment and precautions for fire-fighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. 	
Fire/Explosion Hazard	► Combustible. ► Slight fire hazard when exposed to heat or flame. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

i recautions for sale nationing	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers. Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	► Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Version No: **1.1** Page **4** of **12** Issue Date: **11/20/2023**

Epoxy 100 'A' Concrete Gray

Print Date: 11/20/2023

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Titanium Dioxide Ti02	Titanium dioxide - Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Titanium Dioxide Ti02	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	carbon black	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	carbon black	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Ca; TWA 0.1 mg PAHs/m3 [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)] See Appendix A See Appendix C
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	Ethylene glycol	Not Available	Not Available	Not Available	See Appendix D

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
tetraethylenepentamine	15 mg/m3	130 mg/m3	790 mg/m3
bis(2-aminopropyl ether) propoxylated	4.8 mg/m3	53 mg/m3	320 mg/m3
polypropylene glycol	30 mg/m3	330 mg/m3	2,000 mg/m3
Titanium Dioxide Ti02	30 mg/m3	330 mg/m3	2,000 mg/m3
carbon black	9 mg/m3	99 mg/m3	590 mg/m3
ethylene glycol	30 ppm	150 ppm	900 ppm

Ingredient	Original IDLH	Revised IDLH
polyamine adduct	Not Available	Not Available
tetraethylenepentamine	Not Available	Not Available
bis(2-aminopropyl ether) propoxylated	Not Available	Not Available
polypropylene glycol	Not Available	Not Available
Titanium Dioxide Ti02	5,000 mg/m3	Not Available
carbon black	1,750 mg/m3	Not Available
ethylene glycol	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
polyamine adduct	D	> 0.1 to ≤ 1 ppm	
tetraethylenepentamine	E	≤ 0.1 ppm	
bis(2-aminopropyl ether) propoxylated	Е	≤ 0.1 ppm	

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Exposure controls

Notes:

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

Individual protection measures, such as personal protective equipment









Eye and face protection

- ► Safety glasses with side shields.
- Chemical goggles.

Skin protection

See Hand protection below

 Version No: 1.1
 Page 5 of 12
 Issue Date: 11/20/2023

 Print Date: 11/20/2023
 Print Date: 11/20/2023

Epoxy 100 'A' Concrete Gray

Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective Hands/feet protection equipment, to avoid all possible skin contact The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Body protection** See Other protection below Figure 2 Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. Other protection Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. Overalls. P.V.C apron.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Epoxy resins are thermosetting polymers, which are crosslinked using hardeners (curing agents).

Epoxy is either any of the basic components or the cured end products of epoxy resins, as well as a colloquial name for the epoxide functional group. Epoxy resins, also known as polyepoxides, are a class of reactive prepolymers and polymers which contain at least two epoxide groups. Reactive diluents are generally colourless to yellow/ amber, low viscosity liquids with mild ether-like odour; solubility in water varies across the family. Substitution on the phenolic rings may generate solids. Light sensitive.

Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>200	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	<25 when mixed as intended

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable.

Version No: 1.1 Page 6 of 12 Issue Date: 11/20/2023 Print Date: 11/20/2023

Epoxy 100 'A' Concrete Gray

Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological in	nformation				
nformation on toxicological el	ffects				
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.				
Ingestion	The material has NOT been classified by EC Directi corroborating animal or human evidence.	ives or other classific	ation systems as 'harmful by ingestion'. This is because of the lack of		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	This material can cause eye irritation and damage in	n some persons.			
Chronic	Skin contact with the material is more likely to cause There is sufficient evidence to suggest that this mat	e a sensitisation read erial directly causes	ative health effects involving organs or biochemical systems. tion in some persons compared to the general population. cancer in humans. tal disorders are directly caused by human exposure to the material.		
	TOXICITY		IRRITATION		
Epoxy 100 'A' Concrete Gray	Not Available		Not Available		
			'		
	TOXICITY		IRRITATION		
polyamine adduct	Not Available		Not Available		
	TOXICITY		IRRITATION		
	Dermal (rabbit) LD50: 660 mg/kg ^[2]		Eye (rabbit): 100 mg/24h moderate		
tetraethylenepentamine	Oral (Rat) LD50: 3990 mg/kg ^[2]		Eye (rabbit): 5 mg moderate		
	, , , , , ,		Skin (rabbit): 495 mg SEVERE		
			Skin (rabbit): 5 mg/24h SEVERE		
	TOXICITY	IRRITAT	ION		
	Dermal (rabbit) LD50: 250 mg/kg ***[2]	Eye (rab	bit): 100 mg - SEVERE		
	Dermal (rabbit) LD50: 360 mg/kg ^[2]	Eye (rab	bit): SEVERE *** 94/110		
	Dermal (rabbit) LD50: 670 mg/kg **[2]	Eye: adv	erse effect observed (irreversible damage) ^[1]		
Listo south and settled	Dermal (rabbit) LD50: 760 mg/kg *[2]	Skin (rab	bit): SEVERE *** 6.8/8.0		
bis(2-aminopropyl ether) propoxylated	Dermal (rabbit) LD50: 760 mg/kg **** ^[2]	Skin: adv	verse effect observed (corrosive)[1]		
	Inhalation(Rat) LC50: >2 mg/l *[2]				
	Oral (Rat) LD50: 1600 mg/kg ****[2]				
	Oral (Rat) LD50: 1660 mg/kg *[2]				
	Oral (Rat) LD50: 242 mg/kg ^[2]				
	Oral (Rat) LD50: 670 mg/kg **[2]				
	TOXICITY	IRRITA			
polypropylene glycol	Dermal (rabbit) LD50: 500 mg/kg ^[2]		adverse effect observed (not irritating) ^[1]		
F	Inhalation(Rat) LC50: >2.34 mg/l4h ^[1]	Skin (ra	abbit): 500 mg mild		

Oral (Rat) LD50: >2000 mg/kg^[1]

Skin: no adverse effect observed (not irritating) [1]

 Version No: 1.1
 Page 7 of 12
 Issue Date: 11/20/2023

 Print Date: 11/20/2023
 Print Date: 11/20/2023

Epoxy 100 'A' Concrete Gray

	TOXICITY		IRRITATION			
	dermal (hamster) LD50: >=10000 mg/kg ^[2]		Eye: no adverse effect observed (not irritating) ^[1]			
Titanium Dioxide Ti02	Inhalation(Rat) LC50: >2.28 mg/l4h ^[1]		Skin: no adverse effect observed (not irritating) ^[1]			
	Oral (Rat) LD50: >=2000 mg/kg ^[1]					
	TOXICITY	IRI	RITATION			
carbon black	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Ey	e: no adverse effect obs	erved (not irritating) ^[1]		
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Sk	in: no adverse effect ob	served (not irritating) ^[1]		
	TOXICITY	IR	RITATION			
	dermal (mouse) LD50: >3500 mg/kg ^[1]	Ey	ve (rabbit): 100 mg/1h -	mild		
	Oral (Rat) LD50: >2000 mg/kg ^[2]	Ey	ve (rabbit): 12 mg/m3/3[)		
ethylene glycol		Ey	ve (rabbit): 1440mg/6h-r	noderate		
emylene glycol		Ey	ve (rabbit): 500 mg/24h	mild		
		Ey	ve: no adverse effect ob	served (not irritating) ^[1]		
		SI	sin (rabbit): 555 mg(ope	n)-mild		
		SI	in: no adverse effect ob	served (not irritating) ^[1]		
Legend:	Value obtained from Europe ECHA Registered Sub-	stances - Acu	te toxicity 2. Value obtai	ned from manufacturer's SDS. Unless otherwise		
	specified data extracted from RTECS - Register of Tox	kic Effect of ch	nemical Substances			
	Ethyleneamines are very reactive and can cause chen and may cause eye blindness and irreparable damage		in rashes and asthma-l	ke symptoms. It is readily absorbed through the skin		
	The material may produce moderate eye irritation lead		nation. Repeated or prol	onged exposure to irritants may produce		
	conjunctivitis. The material may cause severe skin irritation after pro	longed or repe	eated exposure and mag	produce on contact skin redness, swelling, the		
tetraethylenepentamine	production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. For alkyl polyamines:					
to a delity to the personal time.	The alkyl polyamines cluster consists of two terminal primary and at least one secondary amine groups and are derivatives of low molecular					
	weight ethylenediamine, propylenediamine or hexanediamine. Toxicity depends on route of exposure. Triethylenetetramine is a severe irritant to skin and eyes and may induce skin sensitisation. Acute exposure to saturated vapour via inhalation					
	was tolerated without impairment but exposure to aerosol may lead to reversible irritations of the mucous membranes in the airways. Tetraethylenepentamine (TEPA) has a low acute toxicity when taken orally and a higher toxicity via the dermal route most likely due to the					
	corrosive nature of TEPA to the skin against neutraliza					
		, stomach ulceration, haemorrhage, respiratory tract changes, dermatitis after systemic administration recorded. * Reichard ** Bayer *** Texaco **** Epoxylite				
	Inc. Canada *** Texaco ****Epoxylite The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may					
hio/2 aminanzanul athar)	produce conjunctivitis. Overexposure to most of these materials may cause adverse health effects.					
bis(2-aminopropyl ether) propoxylated	Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness,					
	anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually					
	transient. There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing.					
	Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs.					
	** Rohm and Haas Paraplex WP-1 MSDS The material may be irritating to the eye, with prolonge	ed contact cau	sing inflammation. Rep	eated or prolonged exposure to irritants may produce		
POLYPROPYLENE GLYCOL	conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of					
	vesicles, scaling and thickening of the skin.	or repeated e.	xposure and may produ	ce on contact skin redness, swelling, the production of		
CARRON RI ACI	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-l Nil reported	No significant	acute toxicological data	a identified in literature search.		
CARBON BLACK	WARNING: This substance has been classified by the	IARC as Gro	up 2B: Possibly Carcino	genic to Humans.		
	[Estimated Lethal Dose (human) 100 ml; RTECS quote	ed by Orica] S	Substance is reproductiv	e effector in rats (birth defects). Mutagenic to rat cells.		
ETHYLENE GLYCOL	For ethylene glycol: Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed					
	rough the airways; absorption through skin is apparently slow.					
Epoxy 100 'A' Concrete Gray & tetraethylenepentamine	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.					
tetraethylenepentamine &						
bis(2-aminopropyl ether) propoxylated	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.					
bis(2-aminopropyl ether)	Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex					
propoxylated &	mixtures of oxidation products.					
POLYPROPYLENE GLYCOL	Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers.					
Acute Toxicity	X Carcinogenicity ✓					
Skin Irritation/Corrosion	•		Reproductivity	×		
Serious Eye Damage/Irritation	~	STO	T - Single Exposure	×		

 Version No: 1.1
 Page 8 of 12
 Issue Date: 11/20/2023

 Print Date: 11/20/2023
 Print Date: 11/20/2023

Epoxy 100 'A' Concrete Gray

STOT - Repeated Exposure

Aspiration Hazard

Legend: X – Data either r.

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 Ecological information

Respiratory or Skin

sensitisation Mutagenicity

Toxicity

	Endpoint	Test Duration (hr)		Species	Value		Sourc	е
poxy 100 'A' Concrete Gray	Not Available	Not Available		Not Available	Not Availab	le	Not Av	railable
	Endpoint	Test Duration (hr)		Species	Value		Source	e
polyamine adduct	Not Available	Not Available		Not Available	Not Availab	le	Not Av	railable
	Endpoint	Test Duration (hr)	Spe	ecies			Value	Source
	EC50	72h	Alg	ae or other aquatic plar	nts		2.1mg/l	1
tetraethylenepentamine	EC50	48h	Cru	ıstacea			24.1mg/l	1
	NOEC(ECx)	72h	Alg	ae or other aquatic plar	nts		0.5mg/l	1
	Endpoint	Test Duration (hr)	Spec	cies		Va	alue	Source
	EC50	48h	Crus	tacea		80	Dmg/l	2
bis(2-aminopropyl ether) propoxylated	NOEC(ECx)	72h	Alga	e or other aquatic plants	3	0.	32mg/l	2
propoxylated	LC50	96h	Fish			77	72.14mg/l	2
	EC50	72h	Alga	e or other aquatic plants	3	2.	1mg/l	2
	Endpoint	Test Duration (hr)	Specie	s		Value		Source
	EC50	72h		or other aquatic plants		>100m	na/l	2
	EC50	48h	Crustad			>100m		2
polypropylene glycol	EC50	96h		or other aquatic plants			4000mg/l	2
	NOEC(ECx)	504h	Crustad			>=10m		2
	LC50	96h	Fish			>100m	ng/l	2
	Endpoint	Test Duration (hr)	Specie	es		Value	e	Source
	BCF	1008h	Fish			<1.1-	-9.6	7
	EC50	72h	Algae	or other aquatic plants		3.75-	·7.58mg/l	4
Titanium Dioxide Ti02	EC50	48h	Crusta	cea		1.9m	g/l	2
	EC50	96h	Algae	Algae or other aquatic plants 1		179.0	05mg/l	2
	LC50	96h	Fish	Fish 1		1.85-	-3.06mg/l	4
	NOEC(ECx)	672h	Fish			>=0.0	004mg/L	2
	Endpoint	Test Duration (hr)	Species		Val	ue		Source
	EC50	72h	Algae or	other aquatic plants	>0.	2mg/l		2
carbon black	EC50	48h	Crustace	a	33.	076-41	.968mg/l	4
	LC50	96h	Fish		>10	00mg/l		2
	NOEC(ECx)	24h	Crustace	a	320	00mg/l		1
	Endpoint	Test Duration (hr)	Species		V	alue		Source
	EC50	96h	Algae or	other aquatic plants	6	500-13	000mg/l	1
				· · · · · · · · · · · · · · · · · · ·			-	

Legend:

ethylene glycol

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 8. Vendor Data

Algae or other aquatic plants

EC50

LC50

EC50(ECx)

48h

96h

Not Available

Crustacea

Fish

2

4

1

>100mg/l

8050mg/l

6500-7500mg/l

Version No: **1.1** Page **9** of **12** Issue Date: **11/20/2023**

Epoxy 100 'A' Concrete Gray

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient Persistence: Water/Soil		Persistence: Air
tetraethylenepentamine	LOW	LOW
polypropylene glycol	LOW	LOW
Titanium Dioxide Ti02	HIGH	HIGH
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)

Bioaccumulative potential

Ingredient	Bioaccumulation	
tetraethylenepentamine	LOW (LogKOW = -3.1604)	
polypropylene glycol	LOW (LogKOW = 1.6984)	
Titanium Dioxide Ti02	LOW (BCF = 10)	
ethylene glycol	LOW (BCF = 200)	

Mobility in soil

Ingredient	Mobility	
tetraethylenepentamine	LOW (KOC = 1098)	
polypropylene glycol	LOW (KOC = 15.66)	
Titanium Dioxide Ti02	LOW (KOC = 23.74)	
ethylene glycol	HIGH (KOC = 1)	

SECTION 13 Disposal considerations

Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
------------------	----

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
polyamine adduct	Not Available
tetraethylenepentamine	Not Available
bis(2-aminopropyl ether) propoxylated	Not Available
polypropylene glycol	Not Available
Titanium Dioxide Ti02	Not Available
carbon black	Not Available
ethylene glycol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
polyamine adduct	Not Available
tetraethylenepentamine	Not Available
bis(2-aminopropyl ether) propoxylated	Not Available

Print Date: 11/20/2023

Version No: **1.1** Page **10** of **12** Issue Date: **11/20/2023**

Epoxy 100 'A' Concrete Gray

Product name	Ship Type	
polypropylene glycol	Not Available	
Titanium Dioxide Ti02	Not Available	
carbon black	Not Available	
ethylene glycol	Not Available	

SECTION 15 Regulatory information

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

polyamine adduct is found on the following regulatory lists

Not Applicable

tetraethylenepentamine is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs)

bis(2-aminopropyl ether) propoxylated is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

polypropylene glycol is found on the following regulatory lists

US AIHA Workplace Environmental Exposure Levels (WEELs)
US DOE Temporary Emergency Exposure Limits (TEELs)

Titanium Dioxide Ti02 is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

Print Date: 11/20/2023

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental
Exposure Levels (WEEL)

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

carbon black is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

ethylene glycol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - Reproductive Toxicity

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

 y	
Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No

Version No: 1.1 Page 11 of 12 Issue Date: 11/20/2023

Epoxy 100 'A' Concrete Gray

Print Date: 11/20/2023

Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
ethylene glycol	5000	2270

State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including paraffinic distillate, heavy, hydrotreated (mild), silica amorphous, Titanium Dioxide Ti02, silica crystalline quartz, carbon black, which are known to the State of California to cause cancer, and ethylene glycol, 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

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (tetraethylenepentamine; bis(2-aminopropyl ether) propoxylated; polypropylene glycol; Titanium Dioxide Ti02; carbon black; ethylene glycol)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (bis(2-aminopropyl ether) propoxylated)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	11/20/2023
Initial Date	11/21/2023

PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

Definitions and abbreviations

Version No: 1.1 Page **12** of **12** Issue Date: 11/20/2023

Epoxy 100 'A' Concrete Gray

Print Date: 11/20/2023

- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ► IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ► STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit,
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- ► OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
 NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Powered by AuthorITe, from Chemwatch.