

Epoxy 100 'A' Black 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

Trough Rolling	
Product name	Epoxy 100 'A' Black
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

oring resin
0

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	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 1C, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3

Label elements

Hazard pictogram(s)







Signal word

d Dange

Hazard statement(s)

1104.4	O was a state of the state of t
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.

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

Epoxy 100 'A' Black

H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
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

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P363	Wash contaminated clothing before reuse.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

CAS No	%[weight]	Name
Not Available	30-60	polyamine adduct
112-57-2*	1-5	tetraethylenepentamine
9046-10-0*	1-5	bis(2-aminopropyl ether) propoxylated
107-21-1	1-5	ethylene glycol
9014-92-0	1-5	dodecylphenol ethoxylate
1333-86-4	1-5	carbon black

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

- Immediately hold eyelids apart and flush the eye continuously with 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 lide
- ▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Print Date: 11/20/2023

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

Epoxy 100 'A' Black

	Transport to hospital or doctor without delay.
	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

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 ignition may result		
Special protective equipment a	and precautions for fire-fighters		
Fire Fighting	Fire Fighting Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus.		
	Combustible. Slight fire hazard when exposed to heat or flame.		

Fire/Explosion Hazard

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	Moderate hazard. ► Clear area of personnel and move upwind.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- ▶ Avoid all personal contact, including inhalation.
- ► Wear protective clothing when risk of exposure occurs.

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

Epoxy 100 'A' Black

Print Date: 11/20/2023

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

Other information

► Store in original containers. ► Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Metal can or drum Suitable container

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

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	Ethylene glycol	Not Available	Not Available	Not Available	See Appendix D
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: Total Dust	15 mg/m3 / 50 mppcf	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 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

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
ethylene glycol	30 ppm	150 ppm	900 ppm
carbon black	9 mg/m3	99 mg/m3	590 mg/m3

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
ethylene glycol	Not Available	Not Available
dodecylphenol ethoxylate	Not Available	Not Available
carbon black	1,750 mg/m3	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	E	≤ 0.1 ppm	
dodecylphenol ethoxylate	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

Exposure controls

Appropriate engineering

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.

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a

Individual protection measures, such as personal protective equipment







range of exposure concentrations that are expected to protect worker health.



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

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

Epoxy 100 'A' Black

Eye and face protection	 Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Full face shield may be required for supplementary but never for primary protection of eyes.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective 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
Other protection	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

Δn	near	rance	3

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
Filysical state	Liquid	Relative delisity (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.
Possibility of hazardous reactions	See section 7

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

Epoxy 100 'A' Black

Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological in	nformation			
Information on toxicological ef	fects			
Inhaled	The material has NOT been classified by EC Directives 'irritating to the respiratory system'. This is because of the		ation systems as 'harmful by inhalation' nor has it been designated as orating animal or human evidence.	
Ingestion	The material can produce chemical burns within the ora The material has NOT been classified by EC Directives corroborating animal or human evidence.		rointestinal tract following ingestion. ation systems as 'harmful by ingestion'. This is because of the lack of	
Skin Contact	The material can produce chemical burns following direct contact with the skin. 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	The material can produce chemical burns to the eye foll If applied to the eyes, this material causes severe eye c	•	tact. Vapours or mists may be extremely irritating.	
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material.			
	TOXICITY		IRRITATION	
Epoxy 100 'A' Black	Not Available		Not Available	
polyamine adduct	TOXICITY Not Available		IRRITATION Not Available	
tetraethylenepentamine	tetraethylenepentamine TOXICITY Dermal (rabbit) LD50: 660 mg/kg ^[2] Oral (Rat) LD50: 3990 mg/kg ^[2]		IRRITATION Eye (rabbit): 100 mg/24h moderate 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 (rabl	bit): 100 mg - SEVERE	
	Dermal (rabbit) LD50: 360 mg/kg ^[2]	Eye (rabl	bit): SEVERE *** 94/110	
	Dermal (rabbit) LD50: 670 mg/kg **[2]	Eye: adv	erse effect observed (irreversible damage) ^[1]	
	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	ATION	
	dermal (mouse) LD50: >3500 mg/kg ^[1]	Eye (ra	abbit): 100 mg/1h - mild	
ethylene glycol	Oral (Rat) LD50: >2000 mg/kg ^[2]	- ' '	abbit): 12 mg/m3/3D	
			abbit): 1440mg/6h-moderate	

Eye (rabbit): 500 mg/24h - mild

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

Epoxy 100 'A' Black

	Eye: no adverse effect observed (not irritating) ^[1]				
	Skin (rabbit): 555 mg(open)-mild		(open)-mild		
	Skin: no adverse effect observed (not irritating) ^[1]				
	TOXICITY	IRRITAT	ON		
dodecylphenol ethoxylate	Dermal (rabbit) LD50: 1110 mg/kg ^[2]	Eye (rab	oit): 15 mg - SEVERE		
,,	Oral (Rat) LD50: 1875 mg/kg ^[2]		bit): 500 mg(open)-mild		
	TOXICITY IRRITATION				
carbon black	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye: no adverse effec	t observed (not irritating) ^[1]		
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Skin: no adverse effe	ct observed (not irritating) ^[1]		
Legend:	Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of To.		obtained from manufacturer's SDS. Unless otherwise		
tetraethylenepentamine	Ethyleneamines are very reactive and can cause chemical burns, skin rashes and asthma-like symptoms. It is readily absorbed through the skin and may cause eye blindness and irreparable damage. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe 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. Repeated exposures may produce severe ulceration. For alkyl polyamines: 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 neutralization by stomach acid. TEPA may be corrosive to the skin and eyes.				
bis(2-aminopropyl ether) propoxylated	Convulsions, stomach ulceration, haemorrhage, respiratory tract changes, dermatitis after systemic administration recorded. * Reichard ** Bayer Inc. Canada *** Texaco ****Epoxylite Overexposure to most of these materials may cause adverse health effects. 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.				
ETHYLENE GLYCOL	[Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells. For ethylene glycol: Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow.				
DODECYLPHENOL ETHOXYLATE	Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents and other cleaning products. Exposure to these chemicals can occur through swallowing, inhalation, or contact with the skin or eyes. Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. 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.				
CARBON BLACK		Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported No significant acute toxicological data identified in literature search.			
Epoxy 100 'A' Black & tetraethylenepentamine	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. The following information refers to contact allergens as a group and may not be specific to this product.				
tetraethylenepentamine & bis(2-aminopropyl ether) propoxylated	Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. 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) propoxylated & DODECYLPHENOL ETHOXYLATE	Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.				
Acute Toxicity	×	Carcinogenio	ity 🗸		
Skin Irritation/Corrosion	✓	Reproductiv			
Serious Eye Damage/Irritation	✓	STOT - Single Exposu	ire X		
Respiratory or Skin sensitisation	•	STOT - Repeated Exposi	re 🗸		
Mutagenicity	×	Aspiration Haza	rd X		

Legend:

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

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

Epoxy 100 'A' Black

Toxicity

Epoxy 100 'A' Black	Endpoint		Test Duration (hr)		Species	Value			Source	
_poxy 100 71 210011	Not Available Not Available			Not Available Not Available		ailable	e Not Available		able	
	Endpoint		Test Duration (hr)		Species	Value			Source	
polyamine adduct	Not Available		Not Available		Not Available Not Available		ailable			able
	Endpoint	-	Test Duration (hr)	s	pecies			Value		Source
	EC50		72h	Д	lgae or other aquatic pla	ants		2.1mg	/I	1
tetraethylenepentamine	EC50		48h	C	rustacea			24.1m	g/l	1
	NOEC(ECx)		72h	А	lgae or other aquatic pla	ants		0.5mg	/I	1
	Endpoint	1	Test Duration (hr)	Sp	ecies			Value		Source
	EC50	4	I8h	Cri	ustacea			80mg/l		2
bis(2-aminopropyl ether)	NOEC(ECx)	72h		Alg	Algae or other aquatic plants			0.32mg/l		2
propoxylated	LC50	96h		Fis	Fish			772.14mg/l		2
	EC50	7	72h	Alg	gae or other aquatic plar	nts		2.1mg/l		2
	Endpoint	Tes	st Duration (hr)	Specie	98		Value	ı		Source
	EC50	96h	1	Algae or other aquatic plants 6500-13000mg/l		/I	1			
ethylene glycol	EC50	48h		Crustacea		>100mg/l			2	
	LC50	96h	1	Fish			8050r	ng/l		4
	EC50(ECx)	Not	t Available	Algae	Algae or other aquatic plants 6500-7500mg/l			1		
	Endpoint		Test Duration (hr)		Species	Value			Source	
dodecylphenol ethoxylate	Not Available		Not Available		Not Available	Not Av	ailable		Not Availa	able
	Endpoint	Te	st Duration (hr)	Specie	s		Value			Source
carbon black	EC50	72	. ,		or other aquatic plants		>0.2mg/	/1		2
	EC50				Crustacea		33.076-41.968mg/l		/I	4
	LC50						>100mg/l			2
	NOEC(ECx)	24		Crustad	cea		3200mg			1
	. , ,									

 $Harmful\ to\ aquatic\ organisms,\ may\ cause\ long-term\ adverse\ effects\ in\ the\ aquatic\ environment.$

- Bioconcentration Data 8. Vendor Data

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

DO NOT discharge into sewer or waterways.

Persistence and degradability

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

Bioaccumulative potential

Ingredient	Bioaccumulation
tetraethylenepentamine	LOW (LogKOW = -3.1604)
ethylene glycol	LOW (BCF = 200)

Mobility in soil

Ingredient	Mobility
tetraethylenepentamine	LOW (KOC = 1098)
ethylene glycol	HIGH (KOC = 1)

SECTION 13 Disposal considerations

Print Date: 11/20/2023

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

Epoxy 100 'A' Black

Waste treatment methods

Product / Packaging disposal

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

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

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
ethylene glycol	Not Available
dodecylphenol ethoxylate	Not Available
carbon black	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
ethylene glycol	Not Available
dodecylphenol ethoxylate	Not Available
carbon black	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)

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

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

dodecylphenol ethoxylate is found on the following regulatory lists

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 Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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

Epoxy 100 'A' Black

Print Date: 11/20/2023

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

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
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)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

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 carbon black, which is 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		
National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (tetraethylenepentamine; bis(2-aminopropyl ether) propoxylated; ethylene glycol; dodecylphenol ethoxylate; carbon black)	
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	

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

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

Epoxy 100 'A' Black

National Inventory	Status
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (dodecylphenol ethoxylate)
Vietnam - NCI	Yes
Russia - FBEPH	No (dodecylphenol ethoxylate)
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

CONTACT POINT

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

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ 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.

^{**}PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES**