

Epoxy 100 'A' Sand 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' Sand
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Specialty Flooring Resin
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction Inc	
Address	50 Dascomb Road Andover MA 01810 United States	
Telephone	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 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Carcinogenicity Category 2, Specific Target Organ Toxicity - Repeated Exposure 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.

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H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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.
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	IF exposed or concerned: Get medical advice/ attention.	
P305+P351+P338	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P314 Get medical advice/attention if you feel unwell.		
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	P337+P313 If eye irritation persists: Get medical advice/attention.	
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.
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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	10-30	polyamine adduct
112-57-2*	0.5-1.5	tetraethylenepentamine.
9046-10-0*	0.5-1.5	bis(2-aminopropyl ether) propoxylated
25322-69-4	1-5	polypropylene glycol
13463-67-7*	10-30	<u>Titanium Dioxide Ti02</u>
107-21-1	0.5-1.5	ethylene glycol
1333-86-4	0.1-1	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

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.

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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.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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	 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

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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 | 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 | 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

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SECTION 8 Exposure controls / personal protection

Control parameters

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: Total Dust	15 mg/m3 / 50 mppcf	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 NIOSH Recommended Exposure Limits (RELs)	Titanium Dioxide Ti02	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
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
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
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
polypropylene glycol	Not Available	Not Available
Titanium Dioxide Ti02	5,000 mg/m3	Not Available
ethylene glycol	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	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

Notes:

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

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









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Eye and face protection	 Safety glasses with side shields. Chemical goggles.
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 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	 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. 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).

Enoxy is either any of the basic components or the cured end products of epoxy resins, as well as a colloquial page.

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

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

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 Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
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 some persons.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There is sufficient evidence to suggest that this material directly causes cancer in humans. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material.

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TOXICITY	IRRITATION
Not Available	Not Available

polyamine adduct

le
le

tetraethylenepentamine

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 660 mg/kg ^[2]	Eye (rabbit): 100 mg/24h moderate
Oral (Rat) LD50: 3990 mg/kg ^[2]	Eye (rabbit): 5 mg moderate
	Skin (rabbit): 495 mg SEVERE
	Skin (rabbit): 5 mg/24h SEVERE

bis(2-aminopropyl ether) propoxylated

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 250 mg/kg ***[2]	Eye (rabbit): 100 mg - SEVERE
Dermal (rabbit) LD50: 360 mg/kg ^[2]	Eye (rabbit): SEVERE *** 94/110
Dermal (rabbit) LD50: 670 mg/kg **[2]	Eye: adverse effect observed (irreversible damage) ^[1]
Dermal (rabbit) LD50: 760 mg/kg *[2]	Skin (rabbit): SEVERE *** 6.8/8.0
Dermal (rabbit) LD50: 760 mg/kg ****[2]	Skin: adverse 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]	

polypropylene glycol

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 500 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]

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		1	
	Inhalation(Rat) LC50: >2.34 mg/l4h ^[1]		xin (rabbit): 500 mg mild
	Oral (Rat) LD50: >2000 mg/kg ^[1]	Sk	kin: no adverse effect observed (not irritating)[1]
	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	IF	RRITATION
	dermal (mouse) LD50: >3500 mg/kg ^[1]	E	eye (rabbit): 100 mg/1h - mild
	Oral (Rat) LD50: >2000 mg/kg ^[2]	E	eye (rabbit): 12 mg/m3/3D
othylono glygol		E	ye (rabbit): 1440mg/6h-moderate
ethylene glycol		E	eye (rabbit): 500 mg/24h - mild
		E	eye: no adverse effect observed (not irritating) ^[1]
		S	Skin (rabbit): 555 mg(open)-mild
		S	Skin: no adverse effect observed (not irritating)[1]
	TOXICITY	IR	RRITATION
carbon black	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Ε\	ye: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >2000 mg/kg ^[1]		kin: no adverse effect observed (not irritating) ^[1]
Lamando			
Legend:	Value obtained from Europe ECHA Registered Sub- specified data extracted from RTECS - Register of Tox		ute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise shemical Substances
	weight ethylenediamine, propylenediamine or hexaned Triethylenetetramine is a severe irritant to skin and eye was tolerated without impairment but exposure to aero Tetraethylenepentamine (TEPA) has a low acute toxici	diamine. Toxions and may in the second may lead to the second may lead to the second may lead to the second make	It least one secondary amine groups and are derivatives of low molecular city depends on route of exposure. Induce skin sensitisation. Acute exposure to saturated vapour via inhalation to reversible irritations of the mucous membranes in the airways. In orally and a higher toxicity via the dermal route most likely due to the ach 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 The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. 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.		
POLYPROPYLENE GLYCOL	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 prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce 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.		
ETHYLENE GLYCOL	For ethylene glycol: Ethylene glycol is quickly and extensively absorbed the	roughout the	Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells. gastrointestinal tract. Limited information suggests that it is also absorbed
	through the airways; absorption through skin is appare	•	nt acute toxicological data identified in literature search.
CARBON BLACK	WARNING: This substance has been classified by the	· ·	· ·
Epoxy 100 'A' Sand & tetraethylenepentamine	The following information refers to contact allergens as Contact allergies quickly manifest themselves as contact	s a group and	d may not be specific to this product.
tetraethylenepentamine & bis(2-aminopropyl ether) propoxylated	Asthma-like symptoms may continue for months or even	en years afte	er exposure to the material ends. This may be due to a non-allergic condition in occur after exposure to high levels of highly irritating compound.
bis(2-aminopropyl ether)	Polyethers (such as ethoxylated surfactants and polye	thylene alvec	
propoxylated & POLYPROPYLENE GLYCOL	mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidise		ols) are highly susceptible to being oxidized in the air. They then form complex is non-sensitizing, many of the oxidation products are sensitisers.

Carcinogenicity

Acute Toxicity X

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Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	•
Mutagenicity	×	Aspiration Hazard	×

Legend:

🗶 – Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

SECTION 12 Ecological information

Legend:

- Bioconcentration Data 8. Vendor Data

y							
	Endpoint	Test Duration (hr)	Species		Value	Sour	rce
Epoxy 100 'A' Sand	Not Available	Not Available	Not Availa	able	Not Available	Not A	Available
	Endpoint	Test Duration (hr)	Species		Value	Sour	rce
polyamine adduct	Not Available	Not Available	Not Availa	able	Not Available		Available
	Endpoint	Test Duration (hr)	Species			Value	Source
	EC50	72h	Algae or other	aquatic plant	 S	2.1mg/l	1
tetraethylenepentamine	EC50	48h	Crustacea			24.1mg/l	1
	NOEC(ECx)	72h	Algae or other	aquatic plant	S	0.5mg/l	1
	Endpoint	Test Duration (hr)	Species			Value	Source
	EC50	48h	Crustacea			80mg/l	2
bis(2-aminopropyl ether)	NOEC(ECx)	72h	Algae or other a	auatia planta		0.32mg/l	2
propoxylated	LC50	96h	Fish	iqualic piarits		772.14mg/l	2
	EC50	72h	Algae or other a	auatic plante		2.1mg/l	2
	LC30	7211	Algae of other a	iquatic plants		z. iiiig/i	
	Endpoint	Test Duration (hr)	Species		Va	lue	Source
	EC50	72h	Algae or other aquatic plants >1		00mg/l	2	
polypropylene glycol	EC50	48h	Crustacea		>1	00mg/l	2
polypropylerie glycol	EC50	96h			30	00-4000mg/l	2
	NOEC(ECx)	504h	Crustacea		>=	10mg/l	2
	LC50	96h	Fish		>1	00mg/l	2
	Endpoint	Test Duration (hr)	Species		V	/alue	Source
	BCF	1008h	Fish		<	1.1-9.6	7
	EC50	72h	Algae or other aq	uatic plants	3	.75-7.58mg/l	4
Titanium Dioxide Ti02	EC50	48h	Crustacea		1	.9mg/l	2
	EC50	96h	Algae or other aq	uatic plants	1	79.05mg/l	2
	LC50	96h	Fish		1	.85-3.06mg/l	4
	NOEC(ECx)	672h	Fish		>	=0.004mg/L	2
	Endpoint	Test Duration (hr)	Species		Valu	ie.	Source
	EC50	96h	Algae or other aqua	tic plants		D-13000mg/l	1
ethylene glycol	EC50	48h	Crustacea			Omg/l	2
omylene glyce.	LC50	96h	Fish			Omg/l	4
	EC50(ECx)	Not Available	Algae or other aqua	tic plants		0-7500mg/l	1
	Endpoint	Test Duration (hr)	Species		Value		Source
	EC50	72h	Algae or other aquat	ic plants	>0.2m	g/l	2
carbon black	EC50	48h	Crustacea		33.076	5-41.968mg/l	4
	LC50						2

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 7. METI (Japan)

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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

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
ethylene glycol	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

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

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)

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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

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

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 Self-heating	No

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No Pyrophoric (Liquid or Solid) 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 Nο Germ cell mutagenicity No Simple Asphyxiant 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

Hazards Not Otherwise Classified



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

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; ethylene glycol; 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	
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

No

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- ▶ 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

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