

Epoxy 100 'A' Buff ICP Construction Inc

Version No: 2.2

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

Issue Date: **01/18/2024** Print Date: **03/07/2024** S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Trouds resistion	
Product name	Epoxy 100 'A' Buff
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Specialty flooring resin
Molevant lacitinica acco	openially hoofing room

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

Registered company name	ICP Construction Inc	
Address	0 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

NFPA 704 diamond



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.

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

Precautionary statement(s) Disposal

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	<u>tetraethylenepentamine</u>
9046-10-0*	0.5-1.5	bis(2-aminopropyl ether) propoxylated
13463-67-7*	10-30	Titanium Dioxide Ti02
107-21-1	1-5	ethylene glycol
9014-92-0	0.1-1	dodecylphenol ethoxylate
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: Wash out immediately with fresh running water. Figure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper **Eye Contact** ▶ 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

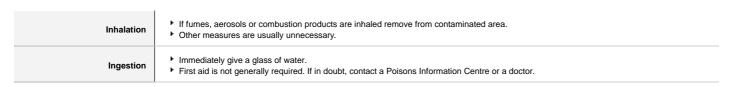
If skin contact occurs: Immediately remove all contaminated clothing, including footwear.

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

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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.
- ► BCF (where regulations permit).

Special hazards arising from the substrate or mixture

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions 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. Prevent, by any means available, spillage from entering drains or water course.
Fire/Explosion Hazard	 ▶ Combustible. ▶ Slight fire hazard when exposed to heat or flame. ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. 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. Avoid breathing vapours and contact with skin and eyes.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe	hand	lina

- Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
 - DO NOT allow clothing wet with material to stay in contact with skin

Other information

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.

Conditions for safe storage, including any incompatibilities

Suitable container

- ► Metal can or drum
- Packaging as recommended by manufacturer.
- $\mbox{\ }^{\blacktriangleright}$ Check all containers are clearly labelled and free from leaks.

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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 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: 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

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
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
Titanium Dioxide Ti02	5,000 mg/m3	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	Е	≤ 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 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.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

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Individual protection measures, such as personal protective equipment Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Eve and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Skin protection See Hand protection below 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. Hands/feet protection Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. 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. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. **Body protection** See Other protection below Figure 1. 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, IAS/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. A respirator affording higher levels of protection may be substituted. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective Other protection 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. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. 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)

Barrier cream.

- 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

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. The epoxide group is also sometimes referred to as a glycidyl or oxirane group..

Appearance

Epoxy resins may be reacted (cross-linked) either with themselves through catalytic homopolymerisation, or with a wide range of co-reactants including polyfunctional amines, acids (and acid anhydrides), phenols, alcohols and thiols.

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. Reactive diluents may contain trace residuals of epichlorohydrin a known skin irritant.

Light sensitive.

Physical state	Liquid	Relative density (Water = 1)	11.4
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

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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. Hazardous polymerisation will not occur.
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

Information	an	taviaal	ادمنده	offooto
intormation	on	toxicoi	odicai	errects

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 ski 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.

F 400 IAI D. #	TOXICITY	IRRITATION
Epoxy 100 'A' Buff	Not Available	Not Available
	TOXICITY	IRRITATION
polyamine adduct	TOXICITY	IRRITATION
polyamine adduct	Not Available	Not Available
	TOVICITY	IDDITATION
	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

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

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		1	44
	Dermal (rabbit) LD50: 670 mg/kg **[2]	-	e effect observed (irreversible damage) ^[1]
	Dermal (rabbit) LD50: 760 mg/kg * ^[2]	, ,	: SEVERE *** 6.8/8.0
	Dermal (rabbit) LD50: 760 mg/kg ****[2]	Skin: advers	e 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 (hamster) LD50: >=10000 mg/kg ^[2]		o adverse effect observed (not irritating) ^[1]
Titanium Dioxide Ti02	Inhalation(Rat) LC50: >2.28 mg/l4h ^[1]	-	o adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >=2000 mg/kg ^[1]	OKIII. II	o adverse effect observed (not imaling).
	Oral (Nat) EDSU. >=2000 Hig/kg· 1		
	TOXICITY	IRRITATIO	NO
	dermal (mouse) LD50: >3500 mg/kg ^[1]	Eye (rabb	it): 100 mg/1h - mild
	Oral (Rat) LD50: >2000 mg/kg ^[2]	Eye (rabb	it): 12 mg/m3/3D
		Eye (rabb	it): 1440mg/6h-moderate
ethylene glycol			it): 500 mg/24h - mild
		Eye: no a	dverse effect observed (not irritating) ^[1]
		Skin (rabb	it): 555 mg(open)-mild
		Skin: no a	dverse effect observed (not irritating) ^[1]
	TOXICITY		IRRITATION
dodecylphenol ethoxylate	Dermal (rabbit) LD50: 1110 mg/kg ^[2]		Eye (rabbit): 15 mg - SEVERE
	Oral (Rat) LD50: 1875 mg/kg ^[2]		Skin (rabbit): 500 mg(open)-mild
	TOXICITY	IRRITATIO	N
carbon black	Dermal (rabbit) LD50: >2000 mg/kg ^[1] Eye: no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50: >2000 mg/kg ^[1]	-	dverse effect observed (not irritating) ^[1]
			3,
Legend:	Value obtained from Europe ECHA Registered Sull specified data extracted from RTECS - Register of To		ty 2. Value obtained from manufacturer's SDS. Unless otherwise Substances
	Ethyleneamines are very reactive and can cause che	emical burns, skin rashe	es and asthma-like symptoms. It is readily absorbed through the skin
	and may cause eye blindness and irreparable damag	ge. As such, they requir	e careful handling.
	and may cause eye blindness and irreparable damag	ge. As such, they requir	
	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after pro	ge. As such, they required adding to inflammation. For colonged or repeated expenses the such that t	e careful handling. Repeated or prolonged exposure to irritants may produce sposure and may produce on contact skin redness, swelling, the
	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after pro production of vesicles, scaling and thickening of the s For alkyl polyamines:	ge. As such, they required in the state of t	e careful handling. Repeated or prolonged exposure to irritants may produce exposure and may produce on contact skin redness, swelling, the res may produce severe ulceration.
tetraethylenepentamine	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after pre production of vesicles, scaling and thickening of the s For alkyl polyamines: The alkyl polyamines cluster consists of two terminal	ge. As such, they requireding to inflammation. For olonged or repeated exposure primary and at least or	e careful handling. Repeated or prolonged exposure to irritants may produce sposure and may produce on contact skin redness, swelling, the
tetraethylenepentamine	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after pre production of vesicles, scaling and thickening of the s For alkyl polyamines: The alkyl polyamines cluster consists of two terminal weight ethylenediamine, propylenediamine or hexane cause skin irritation or sensitisation, eye irritation and	ge. As such, they required and the second se	e careful handling. Repeated or prolonged exposure to irritants may produce reposure and may produce on contact skin redness, swelling, the res may produce severe ulceration. The secondary amine groups and are derivatives of low molecular reds on route of exposure. Cluster members have been shown to ave not been shown to cause cancer.
tetraethylenepentamine	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after pro production of vesicles, scaling and thickening of the s For alkyl polyamines: The alkyl polyamines cluster consists of two terminal weight ethylenediamine, propylenediamine or hexane cause skin irritation or sensitisation, eye irritation and Triethylenetetramine is a severe irritant to skin and ey	ge. As such, they required the ding to inflammation. For colonged or repeated existin. Repeated exposure primary and at least or ediamine. Toxicity depet genetic defects, but he yes and may induce sk	e careful handling. Repeated or prolonged exposure to irritants may produce reposure and may produce on contact skin redness, swelling, the res may produce severe ulceration. The secondary amine groups and are derivatives of low molecular reds on route of exposure. Cluster members have been shown to
tetraethylenepentamine	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after proproduction of vesicles, scaling and thickening of the second for alkyl polyamines: The alkyl polyamines cluster consists of two terminal weight ethylenediamine, propylenediamine or hexane cause skin irritation or sensitisation, eye irritation and Triethylenetetramine is a severe irritant to skin and ey was tolerated without impairment but exposure to aer done on experimental animals showed that it does not	ge. As such, they requireding to inflammation. Follonged or repeated exposured in the state of t	Repeated or prolonged exposure to irritants may produce exposure and may produce on contact skin redness, swelling, the res may produce severe ulceration. The secondary amine groups and are derivatives of low molecular rads on route of exposure. Cluster members have been shown to cause cancer. The sensitisation. Acute exposure to saturated vapour via inhalation sible irritations of the mucous membranes in the airways. Studies all developmental defects.
tetraethylenepentamine	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after proproduction of vesicles, scaling and thickening of the sFor alkyl polyamines: The alkyl polyamines: The alkyl polyamines cluster consists of two terminal weight ethylenediamine, propylenediamine or hexane cause skin irritation or sensitisation, eye irritation and Triethylenetetramine is a severe irritant to skin and eye was tolerated without impairment but exposure to aer done on experimental animals showed that it does not Tetraethylenepentamine (TEPA) has a low acute toxic corrosive nature of TEPA to the skin against neutralize	ge. As such, they requireding to inflammation. Follonged or repeated existin. Repeated exposure primary and at least orediamine. Toxicity depeting genetic defects, but highest and may induce skeep to cause cancer or foeticity when taken orally again by stomach acid.	e careful handling. Repeated or prolonged exposure to irritants may produce sposure and may produce on contact skin redness, swelling, the res may produce severe ulceration. The secondary amine groups and are derivatives of low molecular reds on route of exposure. Cluster members have been shown to reave not been shown to cause cancer. The sensitisation. Acute exposure to saturated vapour via inhalation sible irritations of the mucous membranes in the airways. Studies
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bis(2-aminopropyl ether)	and may cause eye blindness and irreparable damag The material may produce moderate eye irritation lea conjunctivitis. The material may cause severe skin irritation after proproduction of vesicles, scaling and thickening of the serial polyamines: The alkyl polyamines: The alkyl polyamines cluster consists of two terminal weight ethylenediamine, propylenediamine or hexane cause skin irritation or sensitisation, eye irritation and Triethylenetetramine is a severe irritant to skin and eye was tolerated without impairment but exposure to aer done on experimental animals showed that it does not Tetraethylenepentamine (TEPA) has a low acute toxic corrosive nature of TEPA to the skin against neutraliz application may cause thickening of the epidermis and Convulsions, stomach ulceration, haemorrhage, respilnc. Canada *** Texaco ****Epoxylite Overexposure to most of these materials may cause and Many amine-based compounds can cause release of constriction of the bronchi or asthma and inflammatio anxiety, a decrease in blood pressure, rapid heartbeat transient. There are generally four routes of possible or potentia Inhalation: Inhaling vapours may result in moderate to concentrations of certain amines can produce severe breathing and chest pain. [Estimated Lethal Dose (human) 100 ml; RTECS quo For ethylene glycol:	ge. As such, they requireding to inflammation. Follonged or repeated exposure in the properties of the	Repeated or prolonged exposure to irritants may produce exposure and may produce on contact skin redness, swelling, the res may produce severe ulceration. The secondary amine groups and are derivatives of low molecular ruds on route of exposure. Cluster members have been shown to cause cancer. In sensitisation. Acute exposure to saturated vapour via inhalation sible irritations of the mucous membranes in the airways. Studies all developmental defects. The may be corrosive to the skin and eyes. Long term dermal dermatitis after systemic administration recorded. * Reichard ** Bayer turn, can trigger allergic and other physiological effects, including use. Whole-body symptoms include headache, nausea, faintness, the skin, urticaria (hives) and swelling of the face, which are usually skin contact, eye contact, and swallowing. The stips of the nose and throat and can irritate the lungs. Higher tharacterized by discharge from the nose, coughing, difficulty in

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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. Studies of acute toxicity show that relatively high volumes would have to occur to produce any toxic response.

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. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma-

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' Buff &

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.

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. The pathogenesis of contact

eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

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. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.

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 oxidization products also cause irritation

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis

Acute Toxicity	×	Carcinogenicity	✓
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

Value

6500-13000mg/l

🧪 – Data available to make classification

SECTION 12 Ecological information

у								
	Endpoint	Test Duration (hr)	Species	Value	Source	e		
Epoxy 100 'A' Buff	Not Available	Not Available	Not Available	Not Available	Not A	vailable		
	Endpoint	Test Duration (hr)	Species	Value	Source	Source		
polyamine adduct	Not Available	Not Available	Not Available	Not Available	Not A	Not Available		
	Endpoint	Test Duration (hr)	Species		Value	Source		
tatraathulananantamina	EC50	48h	Crustacea		24.1mg/l	1		
tetraethylenepentamine	EC50	72h	Algae or other aquatic pl	lants	2.1mg/l	1		
	NOEC(ECx)	72h	Algae or other aquatic pl	lants	0.5mg/l	1		
	Endpoint	Test Duration (hr)	Species	,	/alue	Source		
his/O swimsward ather	EC50	48h	Crustacea		30mg/l	2		
bis(2-aminopropyl ether) propoxylated	EC50	72h	Algae or other aquatic plan	Algae or other aquatic plants		2		
	NOEC(ECx)	72h	Algae or other aquatic plan	Algae or other aquatic plants		2		
	LC50	96h	Fish		772.14mg/l	2		
	Endpoint	Test Duration (hr)	Species	Val		Source		
	EC50	96h	Algae or other aquatic plant		.05mg/l	2		
	BCF	1008h	Fish		1-9.6	7		
Titani an Biasi Is Tipo								
Titanium Dioxide Ti02	EC50	48h	Crustacea		mg/l	2		
	EC50	72h	Algae or other aquatic plant		5-7.58mg/l	4		
	NOEC(ECx)	672h	Fish).004mg/L	2		
	LC50	96h	Fish	1.8	5-3.06mg/l	4		

Species

Algae or other aquatic plants

Test Duration (hr)

96h

Endpoint

EC50

ethylene glycol

Source

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	EC50	48h		Crustace	a		>100mg/l		2
	EC50(ECx)	Not Av	vailable	Algae or	other aquatic plants		6500-7500mg/l		1
	LC50	96h		Fish			8050mg/l		4
	Endpoint	-	Test Duration (hr)		Species	Value		Source	
dodecylphenol ethoxylate	Not Available		Not Available		Not Available	Not Avai	lable	Not Availa	ble

carbon black

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48h	Crustacea	33.076-41.968mg/l	4
EC50	72h	Algae or other aquatic plants	>0.2mg/l	2
NOEC(ECx)	24h	Crustacea	3200mg/l	1
LC50	96h	Fish	>100mg/l	2

Legend:

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) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient Persistence: Water/Soil		Persistence: Air
tetraethylenepentamine	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)
Titanium Dioxide Ti02	LOW (BCF = 10)
ethylene glycol	LOW (BCF = 200)

Mobility in soil

Ingredient	Mobility
tetraethylenepentamine	LOW (Log KOC = 1098)
Titanium Dioxide Ti02	LOW (Log KOC = 23.74)
ethylene glycol	HIGH (Log 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.

Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

area. In some areas, certain wastes must be tracked.

• 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.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.

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

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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
Titanium Dioxide Ti02	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
Titanium Dioxide Ti02	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)

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

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

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

US DOE Temporary Emergency Exposure Limits (TEELs)

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

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 - 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

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dodecylphenol ethoxylate is found on the following regulatory lists

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)

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US DOE Temporary Emergency Exposure Limits (TEELs)

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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)	
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	

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

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

CAS No	%[weight]	Name
107-21-1	1-5	ethylene glycol
This information must be included in all SDSs that are copied and distributed for this material.		

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including 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
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Epoxy 100 'A' Buff

www.P65Warnings.ca.gov

Additional State Regulatory Information

Not Applicable

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; Titanium Dioxide Ti02; 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	
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	01/18/2024
Initial Date	11/19/2023

CONTACT POINT

SDS Version Summary

Version	Date of Update	Sections Updated
1.2	01/18/2024	Hazards identification - Classification, Composition / information on ingredients - Ingredients

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. Risks may be determined by reference to Exposures Scenarios.

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