

Epoxy 600 A Sterling ICP Building Solutions Group

Version No: 1.1.2.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Issue Date: **04/20/2021** Print Date: **04/20/2021** S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	Epoxy 600 A Sterling	
Synonyms	Not Available	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (contains bisphenol A diglycidyl ether polymer)	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses	Specialty flooring resin

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

Registered company name	ICP Building Solutions Group	
Address	4565 W Watkins Street Phoenix AZ 85043 United States	
Telephone	623-435-2277	
Fax	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

Eye Irritation Category 2A, Chronic Aquatic Hazard Category 2, Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, Skin Sensitizer Category 1, Germ cell mutagenicity Category 2, Carcinogenicity Category 2

Label elements

Hazard pictogram(s)







Signal word

Warning

Hazard statement(s)

H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H361	Suspected of damaging fertility or the unborn child.

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H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) General

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

Precautionary statement(s) Prevention

P202	Do not handle until all safety precautions have been read and understood.
P261	Do not breath dust/fumes/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P302+P352	P352 IF ON SKIN: Rinse with plenty of water.	
P332+P313	P332+P313 IF Skin irritation occurs: Get medical advice/attention.	
P305+P351+P338	IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.	
P337+P333	IF eye irritation persists: Get medical advice/attention.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P362	Take off contaminated clothing and wash before reuse.	
P391	Collect spillage.	

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
25085-99-8	50-55	bisphenol A diglycidyl ether polymer
9003-36-5	25-30	phenol/ formaldehyde glycidyl ether copolymer
2210-79-9	1-5	o-cresyl glycidyl ether
100-51-6	1-5	benzyl alcohol
13463-67-7	5-10	titanium dioxide
1333-86-4	<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.

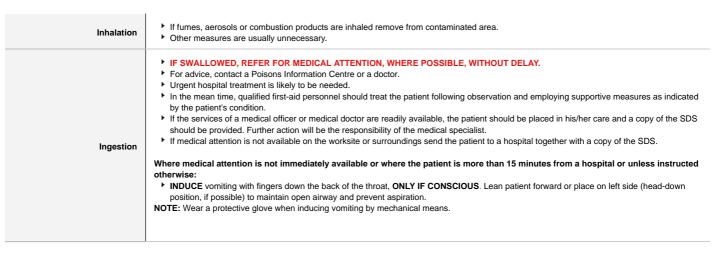
Skin Contact

- 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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

Festablish a patent airway with suction where necessary.

- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications
- ► Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

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 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) aldehydes other pyrolysis products typical of burning organic material.	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

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See section 12

Methods and material for containment and cleaning up

Minor Spills

Environmental hazard - contain spillage.

In the event of a spill of a reactive diluent, the focus is on containing the spill to prevent contamination of soil and surface or ground water.

If irritating vapors are present, an approved air-purifying respirator with organic vapor canister is recommended for cleaning up spills and leaks.

Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Environmental hazard - contain spillage.

Industrial spills or releases of reactive diluents are infrequent and generally contained. If a large spill does occur, the material should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements.

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. DO NOT allow clothing wet with material to stay in contact with skin Other information Store in original containers. Keep containers securely sealed.

	▶ Metal can or drum
Suitable container	Packaging as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.
	Titanium dioxide
	▶ reacts with strong acids, strong oxidisers
	reacts violently with aluminium, calcium, hydrazine, lithium (at around 200 deg C.), magnesium, potassium, sodium, zinc, especially at
	elevated temperatures - these reactions involves reduction of the oxide and are accompanied by incandescence
	b dust or powders can ignite and then explode in a carbon dioxide atmosphere
	Epoxides:
	are highly reactive with acids, bases, and oxidising and reducing agents.
	Freact, possibly violently, with anhydrous metal chlorides, ammonia, amines and group 1 metals.
	Phenols are incompatible with strong reducing substances such as hydrides, nitrides, alkali metals, and sulfides.
	Avoid use of aluminium, copper and brass alloys in storage and process equipment.
	Glycidyl ethers:
Storage incompatibility	may form unstable peroxides on storage in air ,light, sunlight, UV light or other ionising radiation, trace metals - inhibitor should be maintained at adequate levels
	In may polymerise in contact with heat, organic and inorganic free radical producing initiators
	▶ may polymerise with evolution of heat in contact with oxidisers, strong acids, bases and amines
	▶ react violently with strong oxidisers, permanganates, peroxides, acyl halides, alkalis, ammonium persulfate, bromine dioxide
	▶ attack some forms of plastics, coatings, and rubber
	Reactive diluents are stable under recommended storage conditions, but can decompose at elevated temperatures. In some cases,
	decomposition can cause pressure build-up in closed systems.
	Avoid cross contamination between the two liquid parts of product (kit).
	If two part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation
	evolution of heat (exotherm) may occur.
	Avoid reaction with amines, mercaptans, strong acids and 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 (rutile)	Titanium dioxide - Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	titanium dioxide (rutile)	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
US ACGIH Threshold Limit Values (TLV)	titanium dioxide (rutile)	Titanium dioxide	10 mg/m3	Not Available	Not Available	(A4)
US OSHA Permissible Exposure Limits (PELs) Table Z-1	carbon black	Carbon black	3.5 mg/m3	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

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold Limit Values (TLV)	carbon black	Carbon black (Inhalable particulate matter)	3 mg/m3	Not Available	Not Available	АЗ
Emergency Limits						
Ingredient	TEEL-1		TEEL-2			TEEL-3
benzyl alcohol	30 ppm		52 ppm			740 ppm
titanium dioxide (rutile)	30 mg/m3		330 mg/m3			2,000 mg/m3
carbon black	9 mg/m3		99 mg/m3			590 mg/m3
Ingredient	Original IDLH				Revised IDL	н
bisphenol A diglycidyl ether polymer	Not Available				Not Available	3
phenol/ formaldehyde glycidyl ether copolymer	Not Available	Not Available			Not Available	3
o-cresyl glycidyl ether	Not Available	Not Available			Not Available	
benzyl alcohol	Not Available	Not Available		Not Available		
titanium dioxide (rutile)	5,000 mg/m3			Not Available		
carbon black	1,750 mg/m3				Not Available	
Occupational Exposure Banding	g					
Ingredient	Occupational E	Exposure Band Rating			Occupation	nal Exposure Band Limit
bisphenol A diglycidyl ether polymer	E	Е		≤ 0.1 ppm		
phenol/ formaldehyde glycidyl ether copolymer	Е	E		≤ 0.1 ppm		
o-cresyl glycidyl ether	E	E			≤ 0.1 ppm	
benzyl alcohol	E	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 adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to range of exposure concentrations that are expected to protect worker health.					
Exposure controls						
Appropriate engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.						

<u> </u>	
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.
Personal protection	
Eye and face protection	Safety glasses with side shields. Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	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. When handling liquid-grade epoxy resins wear chemically protective gloves, boots and aprons. The performance, based on breakthrough times, of: -Ethyl Vinyl Alcohol (EVAL laminate) is generally excellent -Butyl Rubber ranges from excellent to good -Nitrile Butyl Rubber (NBR) from excellent to fair.

Respiratory protection

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

See Other protection below

Overalls.

P.V.C apron.

- 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

Body protection

Other protection

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Information on basic physical and chemical properties

Appearance

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

Epoxy is either any of the basic components or the cured end products of epoxy resins, as well as a colloquial name for the epoxide functional group. Epoxy resins, also known as polyepoxides, are a class of reactive prepolymers and polymers which contain at least two epoxide groups.

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	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)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	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	Not Available

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

SECTION 11 Toxicological information

Information on toxicological ef	fects
Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. In animal testing, exposure to aerosols of reactive diluents (especially o-cresol glycidyl ether, CAS RN:2210-79-9) has been reported to affect the adrenal gland, central nervous system, kidney, liver, ovaries, spleen, testes, thymus and respiratory tract. Inhalation hazard is increased at higher temperatures.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Reactive diluents exhibit a range of ingestion hazards. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Animal testing showed that a single dose of bisphenol A diglycidyl ether (BADGE) given by mouth, caused an increase in immature sperm. At sufficiently high doses the material may be hepatotoxic (i.e. poisonous to the liver). At sufficiently high doses the material may be nephrotoxic (i.e. poisonous to the kidney).
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. The material may accentuate any pre-existing dermatitis condition Bisphenol A diglycidyl ether (BADGE) may produce contact dermatitis characterized by redness and swelling, with weeping followed by crusting and scaling. A liquid resin with a molecular weight of 350 produced severe skin irritation when applied daily for 4 hours over 20 days. Skin contact with reactive diluents may cause slight to moderate irritation with local redness. Repeated or prolonged skin contact may cause burns. 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. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.
Еуе	Eye contact with reactive diluents may cause slight to severe irritation with the possibility of chemical burns or moderate to severe damage to the cornea.

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This material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.

Glycidyl ethers can cause genetic damage and cancer.

Bisphenol A diglycidyl ethers (BADGEs) produce a sensitization dermatitis (skin inflammation) characterized by eczema with blisters and papules, with considerable itching of the back of the hand. This may persist for 10-14 days after withdrawal from exposure and recur immediately on re-exposure.

For some reactive diluents, prolonged or repeated skin contact may result in absorption of potentially harmful amounts or allergic skin reactions. Exposure to some reactive diluents (notably, neopentylglycol diglycidyl ether, CAS RN: 17557-23-2) has caused cancer in some animal testing. Bisphenol F, bisphenol A, fluorine-containing bisphenol A (bisphenol AF) and other diphenylalkanes were found to have oestrogen-like effects. Bisphenol F is present in the environment and as a contaminant of food, so humans may therefore be exposed to bisphenol.

Bisphenol A may have effects similar to female sex hormones and when administered to pregnant women, may damage the foetus. It may also damage male reproductive organs and sperm.

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Chronic

TOXICITY	IRRITATION
Not Available	Not Available

bisphenol A diglycidyl ether polymer

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 6000 mg/kg ^[2]	Not Available
Oral(Rat) LD50: >2400 mg/kg ^[2]	

phenol/ formaldehyde glycidyl ether copolymer

TOXICITY	IRRITATION
dermal (rat) LD50: >400 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
Oral(Rat) LD50; >2000 mg/kg ^[2]	Skin: adverse effect observed (irritating) ^[1]

o-cresyl glycidyl ether

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): non-irritating *
Inhalation(Rat) LC50; >6.1 ppm4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
Oral(Rat) LD50; ~2800 mg/kg ^[1]	Skin (rabbit): irritating *
	Skin: no adverse effect observed (not irritating) ^[1]

benzyl alcohol

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 0.75 mg open SEVERE
Inhalation(Rat) LC50; >4.178 mg/L4h ^[1]	Eye: adverse effect observed (irritating) ^[1]
Oral(Rat) LD50; 1.442 mg/kg ^[2]	Skin (man): 16 mg/48h-mild
	Skin (rabbit):10 mg/24h open-mild
	Skin: no adverse effect observed (not irritating) ^[1]

titanium dioxide (rutile)

TOXICITY	IRRITATION
Oral(Rat) LD50; >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
	Skin: no adverse effect observed (not irritating) ^[1]

carbon black

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
Oral(Rat) LD50; >8000 mg/kg ^[1]	Skin: no adverse effect observed (not irritating)[1]

Leaend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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The various members of the bisphenol family produce hormone like effects, seemingly as a result of binding to estrogen receptor-related receptors (ERRs; not to be confused with estrogen receptors)

A suspected estrogen-related receptors (ERR) binding agent:

Estrogen-related receptors (ERR, oestrogen-related receptors) are so named because of sequence homology with estrogen receptors but do not appear to bind estrogens or other tested steroid hormones. The ERR family have been demonstrated to control energy homeostasis, oxidative metabolism and mitochondrial biogenesis ,while effecting mammalian physiology in the heart, brown adipose tissue, white adipose tissue, placenta, macrophages, and demonstrated additional roles in diabetes and cancer.

ERRs bind enhancers throughout the genome where they exert effects on gene regulation

Although their overall functions remain uncertain, they also share DNA-binding sites, co-regulators, and target genes with the conventional estrogen receptors ERalpha and ERbeta and may function to modulate estrogen signaling pathways.

ERR-alpha has wide tissue distribution but it is most highly expressed in tissues that preferentially use fatty acids as energy sources such as kidney, heart, brown adipose tissue, cerebellum, intestine, and skeletal muscle. ERRalpha has been detected in normal adrenal cortex

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tissues, in which its expression is possibly related to adrenal development, with a possible role in fetal adrenal function, in dehydroepiandrosterone (DHEAS) production in adrenarche, and also in steroid production of post-adrenarche/adult life. Bisphenol A diglycidyl ethers (BADGEs) produce a sensitization dermatitis (skin inflammation) characterized by eczema with blisters and papules, with considerable itching of the back of the hand. This may persist for 10-14 days after withdrawal from exposure and recur immediately Bisphenol A may have effects similar to female sex hormones and when administered to pregnant women, may damage the foetus. It may also BISPHENOL A DIGLYCIDYL damage male reproductive organs and sperm. **ETHER POLYMER** Glycidyl ethers can cause genetic damage and cancer. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. * [Reichold]; ** [Epoxylite Corp.]; for monomer o-CGE is a direct-acting mutagen in in-vitro test systems. Studies in vivo, including micronucleus tests and assays in transgenic animals, showed O-CRESYL GLYCIDYL ETHER no mutagenic activity. Causes sensitisation * * Huntsman Araldite DY-K/ CH SDS Unlike benzylic alcohols, the beta-hydroxyl group of the members of benzyl alkyl alcohols contributes to break down reactions but do not undergo phase II metabolic activation. Though structurally similar to cancer causing ethyl benzene, phenethyl alcohol is only of negligible concern due to limited similarity in their pattern of activity. For benzoates Benzyl alcohol, benzoic acid and its sodium and potassium salt have a common metabolic and excretion pathway. All but benzyl alcohol are BENZYL ALCOHOL considered to be unharmful and of low acute toxicity. This is a member or analogue of a group of benzyl derivatives generally regarded as safe (GRAS), based partly on their self-limiting properties as flavouring substances in food. In humans and other animals, they are rapidly absorbed, broken down and excreted, with a wide safety margin. The arvl alkyl alcohol (AAA) fragrance ingredients have diverse chemical structures, with similar metabolic and toxicity profiles. The AAA fragrances demonstrate low acute and subchronic toxicity by skin contact and swallowing. TITANIUM DIOXIDE (RUTILE) Skin (human) 0.3: mg/3d-I mild Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported CARBON BLACK WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Epoxy 600 A Sterling & Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of O-CRESYL GLYCIDYL ETHER Epoxy 600 A Sterling & **BISPHENOL A DIGLYCIDYL** ETHER POLYMER & PHENOL/ The following information refers to contact allergens as a group and may not be specific to this product. FORMALDEHYDE GLYCIDYL Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact **ETHER COPOLYMER &** eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. O-CRESYL GLYCIDYL ETHER & BENZYL ALCOHOL Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, Epoxy 600 A Sterling & sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact dermatitis occurs. BENZYL ALCOHOL Fragrance allergens act as haptens, low molecular weight chemicals that cause an immune response only when attached to a carrier protein. However, not all sensitizing fragrance chemicals are directly reactive, but require previous activation. Epoxy 600 A Sterling & Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing TITANIUM DIOXIDE (RUTILE) dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle Epoxy 600 A Sterling & Animal testing over 13 weeks showed bisphenol A diglycidyl ether (BADGE) caused mild to moderate, chronic, inflammation of the skin. **BISPHENOL A DIGLYCIDYL** Reproductive and Developmental Toxicity: Animal testing showed BADGE given over several months caused reduction in body weight but had no ETHER POLYMER reproductive effects. Epoxy 600 A Sterling & The chemical structure of hydroxylated diphenylalkanes or bisphenols consists of two phenolic rings joined together through a bridging carbon. **BISPHENOL A DIGLYCIDYL** This class of endocrine disruptors that mimic oestrogens is widely used in industry, particularly in plastics. ETHER POLYMER & PHENOL/ Bisphenol A (BPA) and some related compounds exhibit oestrogenic activity in human breast cancer cell line MCF-7, but there were remarkable FORMALDEHYDE GLYCIDYL differences in activity. ETHER COPOLYMER Epoxy 600 A Sterling & **BISPHENOL A DIGLYCIDYL** Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) share many common characteristics with respect to animal toxicology. One FTHER POLYMER & such oxirane is ethyloxirane; data presented here may be taken as representative. O-CRESYL GLYCIDYL ETHER **BISPHENOL A DIGLYCIDYL** For 1,2-butylene oxide (ethyloxirane): **ETHER POLYMER &** In animal testing, ethyloxirane increased the incidence of tumours of the airways in animals exposed via inhalation. However, tumours were not O-CRESYL GLYCIDYL ETHER observed in mice chronically exposed via skin. PHENOL/ FORMAL DEHYDE **GLYCIDYL ETHER** The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce **COPOLYMER & TITANIUM** conjunctivitis DIOXIDE (RUTILE) PHENOL/ FORMALDEHYDE **GLYCIDYL ETHER** The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of **COPOLYMER & BENZYL** vesicles, scaling and thickening of the skin. **ALCOHOL & TITANIUM** DIOXIDE (RUTILE) TITANIUM DIOXIDE (RUTILE) No significant acute toxicological data identified in literature search. & CARBON BLACK **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion Reproductivity × Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin × STOT - Repeated Exposure sensitisation Mutagenicity **Aspiration Hazard** ×

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Legend:

X − Data either not available or does not till the criteria for classification

— Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint		Test Duration (hr)		Species	Value		Source	
Epoxy 600 A Sterling	Not Available		Not Available		Not Available	Not Availab	le	Not Avai	lable
bisphenol A diglycidyl ether	Endpoint		Test Duration (hr)		Species	Value		Source	
polymer	Not Available		Not Available		Not Available	Not Availab	le	Not Avai	lable
phenol/ formaldehyde glycidyl	Endpoint		Test Duration (hr)		Species	Value		Source	
ether copolymer	Not Available		Not Available		Not Available	Not Availab	le	Not Avai	lable
	Endpoint	Tes	t Duration (hr)	Specie	es		Value		Source
	EC50	48		Crusta	cea		~3.3mg/l		2
o-cresyl glycidyl ether	LC50	96		Fish	Fish		~2.8~5.1m	g/l	2
	EC50(ECx)	48	48		Crustacea		~3.3mg/l		2
	EC50	72		Algae	or other aquatic plants		~5.1mg/l		2
	Endpoint	Tes	t Duration (hr)	Speci	es		Value		Source

benzyl alcohol

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48	Crustacea	230mg/l	2
LC50	96	Fish	10mg/l	2
EC50(ECx)	5	Algae or other aquatic plants	>0.442mg/L	4
EC50	72	Algae or other aquatic plants	500mg/l	2
EC50	96	Algae or other aquatic plants	76.828mg/l	2

titanium dioxide (rutile)

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	48	Crustacea	>100mg/l	2
LC50	96	Fish	>100mg/l	2
EC50	72	Algae or other aquatic plants	13mg/l	2
NOEC(ECx)	48	Crustacea	<=1mg/l	2

carbon black

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

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Liquid epoxy resins and some reactive diluents are not readily biodegradable, although its epoxy functional groups are hydrolysed in contact with water, they have the potential to bio-accumulate and are moderately toxic to aquatic organisms. They are generally classified as dangerous for the environment according to the European Union classification criteria. For bisphenol A and related bisphenols:

Environmental fate:

Biodegradability (28 d) 89% - Easily biodegradable

Bioconcentration factor (BCF) 7.8 mg/l

Bisphenol A, its derivatives and analogues, can be released from polymers, resins and certain substances by metabolic products

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

As an environmental contaminant, bisphenol A interferes with nitrogen fixation at the roots of leguminous plants associated with the bacterial symbiont Sinorhizobium meliloti. Despite a half-life in the soil of only 1-10 days, its ubiquity makes it an important pollutant.

Reactive diluents generally have a low to moderate potential for bioconcentration (tendency to accumulate in the food chain) and a high to very high potential for mobility in soil. Small amounts that escape to the atmosphere will photodegrade.

Environmental toxicity is a function of the n-octanol/water partition coefficient (log Pow, log Kow). Compounds with log Pow >5 act as neutral organics, but at a lower log Pow, the toxicity of epoxide-containing polymers is greater than that predicted for simple narcotics.

Significant environmental findings are limited. Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) exhibit common characteristics with respect to environmental fate and ecotoxicology.

For 1,2-Butylene oxide (Ethyloxirane):

log Kow values of 0.68 and 0.86. BAF and BCF: 1 to 17 L./kg.

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Reactive diluents which are only slightly soluble in water and do not evaporate quickly are expected to sink to the bottom or float to the top, depending on the density, where they would be expected to biodegrade slowly.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
bisphenol A diglycidyl ether polymer	HIGH	HIGH
o-cresyl glycidyl ether	HIGH	HIGH
benzyl alcohol	LOW	LOW
titanium dioxide (rutile)	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
bisphenol A diglycidyl ether polymer	LOW (LogKOW = 2.6835)
o-cresyl glycidyl ether	LOW (LogKOW = 2.1609)
benzyl alcohol	LOW (LogKOW = 1.1)
titanium dioxide (rutile)	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility
bisphenol A diglycidyl ether polymer	LOW (KOC = 51.43)
o-cresyl glycidyl ether	LOW (KOC = 67.93)
benzyl alcohol	LOW (KOC = 15.66)
titanium dioxide (rutile)	LOW (KOC = 23.74)

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.

Waste Management

Production waste from epoxy resins and resin systems should be treated as hazardous waste in accordance with National regulations. Fire retarded resins containing halogenated compounds should also be treated as special waste.

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. Product / Packaging disposal
 - It may be necessary to collect all wash water for treatment before disposal.

Removal of bisphenol A (BPA) from aqueous solutions was accomplished by adsorption of enzymatically generated quinone derivatives on chitosan beads. The use of chitosan in the form of beads was found to be more effective because heterogeneous removal of BPA with chitosan beads was much faster than homogeneous removal of BPA with chitosan solutions, and the removal efficiency was enhanced by increasing the amount of chitosan beads dispersed in the BPA solutions and BPA was completely removed by quinone adsorption in the presence of chitosan beads more than 0.10 cm3/cm3.

- ▶ 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)

	,			
UN number	32			
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (contains bisphenol A diglycidyl ether polymer)			
Transport hazard class(es)	Class 9 Subrisk Not Applicable			

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Packing group	l			
Packing group	111	III		
Environmental hazard	Not Applicable	lot Applicable		
Consist one sentions for your	Hazard Label	9		
Special precautions for user	Special provisions	8, 146, 173, 335, IB3, T4, TP1, TP29		

For Individual Packages of Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 that contain LESS THAN the reportable quantity (5000 lbs) - Not Regulated

For Individual Packages of Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 that contain MORE THAN the reportable quantity (5000 lbs) - Regulated and classified as below:

Air transport (ICAO-IATA / DGR)

UN number	3082	3082			
UN proper shipping name	Environmentally hazardo	Environmentally hazardous substance, liquid, n.o.s. * (contains bisphenol A diglycidyl ether polymer)			
	ICAO/IATA Class	9			
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable			
	ERG Code				
Packing group III					
Environmental hazard	Environmentally hazardo	ous			
	Special provisions		A97 A158 A197 A215		
	Cargo Only Packing Instructions		964		
	Cargo Only Maximum Qty / Pack		450 L		
Special precautions for user	Passenger and Cargo Packing Instructions		964		
	Passenger and Cargo	Maximum Qty / Pack	450 L		
	Passenger and Cargo	Limited Quantity Packing Instructions	Y964		
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G		

Sea transport (IMDG-Code / GGVSee)

UN number	3082		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A diglycidyl ether polymer)		
Transport hazard class(es)		9 Not Applicable	
Packing group			
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities		

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

Not Applicable

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

Product name	Group
bisphenol A diglycidyl ether polymer	Not Available
phenol/ formaldehyde glycidyl ether copolymer	Not Available
o-cresyl glycidyl ether	Not Available
benzyl alcohol	Not Available
titanium dioxide (rutile)	Not Available
carbon black	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
bisphenol A diglycidyl ether polymer	Not Available
phenol/ formaldehyde glycidyl ether copolymer	Not Available
o-cresyl glycidyl ether	Not Available
benzyl alcohol	Not Available
titanium dioxide (rutile)	Not Available

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 Product name
 Ship Type

 carbon black
 Not Available

SECTION 15 Regulatory information

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

bisphenol A diglycidyl ether polymer is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

phenol/ formaldehyde glycidyl ether copolymer is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

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

o-cresyl glycidyl ether is found on the following regulatory lists

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

benzyl alcohol is found on the following regulatory lists

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)

US TSCA Chemical Substance Inventory - Interim List of Active Substances

titanium dioxide (rutile) 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 - California Proposition 65 - Carcinogens

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes

US AIHA Workplace Environmental Exposure Levels (WEELs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US NIOSH Recommended Exposure Limits (RELs)

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

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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 - California Proposition 65 - Carcinogens

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

US ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US AIHA Workplace Environmental Exposure Levels (WEELs)

US DOE Temporary Emergency Exposure Limits (TEELs)

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

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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	Yes
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes

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No Specific target organ toxicity (single or repeated exposure) Aspiration Hazard No Germ cell mutagenicity Yes Simple Asphyxiant No Hazards Not Otherwise Classified No

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

None Reported

State Regulations

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

US - California Proposition 65 - Carcinogens: Listed substance

titanium dioxide (rutile), carbon black Listed

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (bisphenol A diglycidyl ether polymer; phenol/ formaldehyde glycidyl ether copolymer; o-cresyl glycidyl ether; benzyl alcohol; titanium dioxide (rutile); carbon black)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (bisphenol A diglycidyl ether polymer)	
Japan - ENCS	No (bisphenol A diglycidyl ether polymer; phenol/ formaldehyde glycidyl ether copolymer)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (o-cresyl glycidyl ether)	
Vietnam - NCI	Yes	
Russia - FBEPH	No (o-cresyl glycidyl ether)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 Other information

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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

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

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

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

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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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