

Epoxy 550 Wheat Part B

ICP Construction Inc

Version No: 6.8

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

Issue Date: 01/08/2024 Print Date: 01/08/2024 S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	Epoxy 550 Wheat Part B	
Synonyms	ns Not Available	
Proper shipping name Amine, liquid, corrosive, n.o.s (contains 1,3-cyclohexanebis(methylamine)		
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

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

Registered company name	ICP Construction Inc	
Address	50 Dascomb Road Andover MA 01810 United States	
Telephone	66-667-5119 1-978-623-9987	
Fax	Fax Not Available	
Website	Website www.icpgroup.com	
Email	sds@icpgroup.com	

Emergency phone number

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

SECTION 2 Hazard(s) identification

Classification of the substance or mixture



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

Classification

Skin Corrosion/Irritation Category 1A, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Respiratory) Category 1, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2

Label elements

Hazard pictogram(s)







Signal word

Danger

Hazard statement(s)

H314	Causes severe skin burns and eye damage
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H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) General

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

Precautionary statement(s) Prevention

P202	Do not handle until all safety precautions have been read and understood.
P260 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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.

Precautionary statement(s) Response

,	
P308+P313	If exposed or concerned, get medical advice/attention.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P333+P313	IF Skin irritation or rash occurs: 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	IF experiencing respiratory symptoms call a POISON CENTER/doctor
P337+P313	If eye irritation persists, seek medical advice/attention.
P362+P364	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
1761-71-3	1-5	4.4'-methylenebis(cyclohexylamine)
2579-20-6	1-5	1,3-cyclohexanebis(methylamine)
100-51-6	7-13	benzyl alcohol
128-37-0	0.5-1.5	2.6-di-tert-butyl-4-methylphenol
13463-67-7*	15-40	<u>Titanium Dioxide Ti02</u>
2807-30-9	5-10	2-propoxyethanol
84852-15-3	0.1-1	4-nonylphenol, branched

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

SECTION 4 First-aid measures

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If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids ▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. **Eve Contact** For amines: F If liquid amines come in contact with the eyes, irrigate immediately and continuously with low pressure flowing water, preferably from an eye wash fountain, for 15 to 30 minutes For more effective flushing of the eyes, use the fingers to spread apart and hold open the eyelids. The eyes should then be "rolled" or moved in all directions. ▶ Seek immediate medical attention, preferably from an ophthalmologist. If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor. In case of major exposure to liquid amine, promptly remove any contaminated clothing, including rings, watches, and shoe, preferably under Skin Contact a safety shower Wash skin for 15 to 30 minutes with plenty of water and soap. Call a physician immediately. P Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing Discard contaminated leather articles such as shoes, belts, and watchbands. ▶ Note to Physician: Treat any skin burns as thermal burns. After decontamination, consider the use of cold packs and topical antibiotics. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be Inhalation considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719) For amines: ▶ All employees working in areas where contact with amine catalysts is possible should be thoroughly trained in the administration of appropriate first aid procedures. ▶ Experience has demonstrated that prompt administration of such aid can minimize the effects of accidental exposure. Promptly move the affected person away from the contaminated area to an area of fresh air. ▶ Keep the affected person calm and warm, but not hot. If breathing is difficult, oxygen may be administered by a qualified person. If breathing stops, give artificial respiration. Call a physician at once For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomi If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious Ingestion • Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink ► Transport to hospital or doctor without delay. For amines: If liquid amine are ingested, have the affected person drink several glasses of water or milk. ► Do not induce vomiting. Immediately transport to a medical facility and inform medical personnel about the nature of the exposure. The decision of whether to induce vomiting should be made by an attending physician.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Clinical experience of benzyl alcohol poisoning is generally confined to premature neonates in receipt of preserved intravenous salines.

- Metabolic acidosis, bradycardia, skin breakdown, hypotonia, hepatorenal failure, hypotension and cardiovascular collapse are characteristic.
- ▶ High urine benzoate and hippuric acid as well as elevated serum benzoic acid levels are found.
- ▶ The so-called 'gasping syndrome describes the progressive neurological deterioration of poisoned neonates.
- ► Management is essentially supportive.

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- ▶ Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

INGESTION:

Milk and water are the preferred diluents

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No more than 2 glasses of water should be given to an adult.

- ▶ Neutralising agents should never be given since exothermic heat reaction may compound injury
- * Catharsis and emesis are absolutely contra-indicated.
- * Activated charcoal does not absorb alkali
- * Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- ▶ Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

For amines:

- Certain amines may cause injury to the respiratory tract and lungs if aspirated. Also, such products may cause tissue destruction leading to stricture. If lavage is performed, endotracheal and/or esophagoscopic control is suggested.
- ▶ No specific antidote is known.
- Care should be supportive and treatment based on the judgment of the physician in response to the reaction of the patient.

Laboratory animal studies have shown that a few amines are suspected of causing depletion of certain white blood cells and their precursors in lymphoid tissue. These effects may be due to an immunosuppressive mechanism.

Some persons with hyperreactive airways (e.g., asthmatic persons) may experience wheezing attacks (bronchospasm) when exposed to airway irritants.

Lung injury may result following a single massive overexposure to high vapour concentrations or multiple exposures to lower concentrations of any pulmonary irritant material. Health effects of amines, such as skin irritation and transient corneal edema ("blue haze," "halo effect," "glaucopsia"), are best prevented by means of formal worker education, industrial hygiene monitoring, and exposure control methods. Persons who are highly sensitive to the triggering effect of non-specific irritants should not be assigned to jobs in which such agents are used, handled, or manufactured.

Medical surveillance programs should consist of a pre-placement evaluation to determine if workers or applicants have any impairments (e.g., hyperreactive airways or bronchial asthma) that would limit their fitness for work in jobs with potential for exposure to amines. A clinical baseline can be established at the time of this evaluation.

Periodic medical evaluations can have significant value in the early detection of disease and in providing an opportunity for health counseling.

Medical personnel conducting medical surveillance of individuals potentially exposed to polyurethane amine catalysts should consider the following:

- ▶ Health history, with emphasis on the respiratory system and history of infections
- Physical examination, with emphasis on the respiratory system and the lymphoreticular organs (lymph nodes, spleen, etc.)
- Lung function tests, pre- and post-bronchodilator if indicated
- ► Total and differential white blood cell count
- ► Serum protein electrophoresis

Persons who are concurrently exposed to isocyanates also should be kept under medical surveillance.

Pre-existing medical conditions generally aggravated by exposure include skin disorders and allergies, chronic respiratory disease (e.g. bronchitis, asthma, emphysema), liver disorders, kidney disease, and eye disease.

Broadly speaking, exposure to amines, as characterised by amine catalysts, may cause effects similar to those caused by exposure to ammonia. As such, amines should be considered potentially injurious to any tissue that is directly contacted.

Inhalation of aerosol mists or vapors, especially of heated product, can result in chemical pneumonitis, pulmonary edema, laryngeal edema, and delayed scarring of the airway or other affected organs. There is no specific treatment.

Clinical management is based upon supportive treatment, similar to that for thermal burns.

Persons with major skin contact should be maintained under medical observation for at least 24 hours due to the possibility of delayed reactions.

Polyurethene Amine Catalysts: Guidelines for Safe Handling and Disposal Technical Bulletin June 2000

Alliance for Polyurethanes Industry

SECTION 5 Fire-fighting measures

Fire Incompatibility

Extinguishing media

- Foam.
- Dry chemical powder.

Special hazards arising from the substrate or mixture

	I .
Special protective equipment	and precautions for fire-fighters
	▶ Alert Fire Brigade and tell them location and nature of hazard.
	Wear full body protective clothing with breathing apparatus.
Eiro Eighting	For amines:
Fire Fighting	For firefighting, cleaning up large spills, and other emergency operations, workers must wear a self-contained breathing apparatus with full face-piece, operated in a pressure-demand mode.
	Airline and air purifying respirators should not be worn for firefighting or other emergency or upset conditions.
	▶ Combustible.
	▶ Slight fire hazard when exposed to heat or flame.

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

Fire/Explosion Hazard

Combustion products include: carbon dioxide (CO2)

aldehydes

other pyrolysis products typical of burning organic material.

May emit corrosive fumes

WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

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Methods and material for containment and cleaning up P Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. P Check regularly for spills and leaks. P Clean up all spills immediately. P Avoid breathing vapours and contact with skin and eyes. for amines: P If possible (i.e., without risk of contact or exposure), stop the leak. P Contain the spilled material by diking, then neutralize.

Clear area of personnel and move upwind.

▶ Alert Fire Brigade and tell them location and nature of hazard.

Major Spills

For amines:

• First remove all ignition sources from the spill area.

Have firefighting equipment nearby, and have firefighting personnel fully trained in the proper use of the equipment and in the procedures used in fighting a chemical fire.

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. DO NOT store near acids, or oxidising agents No smoking, naked lights, heat or ignition sources.

Conditions for safe storage, including any incompatibilities

Suitable container	Lined metal can, lined metal pail/ can. Plastic pail. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure.
Storage incompatibility	Benzyl alcohol: In may froth in contact with water In slowly oxidises in air, oxygen forming benzaldehyde In is incompatible with mineral acids, caustics, aliphatic amines, isocyanates In reacts violently with strong oxidisers, and explosively with sulfuric acid at elevated temperatures In reacts violently with strong oxidisers, and explosively with sulfuric acid at elevated temperatures In reacts violently with strong oxidisers, and explosively with sulfuric acid at elevated temperatures In reacts violently with strong oxidisers, and explosively with sulfuric acid at elevated temperatures In reacts violently with strong acids and the strong violent strong polypropylene Benzyl alcohol contaminated with 1.4% hydrogen bromide and 1.2% of dissolved iron(II) polymerises exothermically above 100 deg. C. Amines are incompatible with: In socyanates, halogenated organics, peroxides, phenols (acidic), epoxides, anhydrides, and acid halides. In the strong acids, acid chlorides, acid anhydrides and chloroformates. Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. Avoid contact with copper, aluminium and their alloys. Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	2,6-di-tert-butyl- 4-methylphenol	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	2,6-di-tert-butyl- 4-methylphenol	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	2,6-di-tert-butyl- 4-methylphenol	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	2,6-di-tert-butyl- 4-methylphenol	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	2,6-di-tert-butyl- 4-methylphenol	2,6-Di-tert-butyl-p-cresol	10 mg/m3	Not Available	Not Available	Not Available
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

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Source	Ingredient	Material name		TWA	STEL	Peak	Notes		
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	ioxide Ti02 Titanium dioxide			Not Available	Not Available	Ca; See Appendix A		
Emergency Limits									
ngredient	TEEL-1	TEEL-1 TEEL-2			TEEL-3				
penzyl alcohol	30 ppm		52 ppm		740 ppm				
Fitanium Dioxide Ti02	30 mg/m3		330 mg/m3		2,000 mg/m3				
2-propoxyethanol	2.2 ppm		24 ppm		140 ppm				
I-nonylphenol, branched	3.9 mg/m3		43 mg/m3		260 mg/m3				
ngredient	Original IDLH			Revised IDLH					
1,4'-methylenebis(cyclohexylamine)				Not Available					
1,3-cyclohexanebis(methylamine)	Not Available			Not Available					
penzyl alcohol	Not Available			Not Available					
2,6-di-tert-butyl-4-methylphenol	Not Available			Not Available					
Fitanium Dioxide Ti02	5,000 mg/m3			Not Available					
2-propoxyethanol	Not Available			Not Available					
t-propoxyetnanoi	Not Available Not Available			Not Available					
* *	Not Available			Not Available					
Occupational Exposure Banding									
ngredient	Occupational Expos	ire Band Rating		1	Exposure Band I	_imit			
1,4'-methylenebis(cyclohexylamine)				≤ 0.1 ppm					
,3-cyclohexanebis(methylamine)	D			> 0.1 to ≤ 1 ppn	> 0.1 to ≤ 1 ppm				
penzyl alcohol	E			≤ 0.1 ppm					
2-propoxyethanol	E			≤ 0.1 ppm					
4-nonylphenol, branched Notes:	E			≤ 0.1 ppm to specific categories or bands based on a chemical's potency and the					
xposure controls Appropriate engineering			re expected to protect worker azard or place a barrier betwe		the hazard. Well-	designed engine	eering controls c		
controls			will typically be independent of				-		
Individual protection measures, such as personal protective equipment									
Eye and face protection	not sufficient where of material may be und • Chemical goggles. For amines: SPECIAL PRECAUTION • Because amines are	er pressure. Er pressure. Er alkaline materials ti	nields may be used where con tition is needed such as when that can cause rapid and seven enses can prolong contact of the	handling bulk-quan re tissue damage, v	tities, where there	e is a danger of s	splashing, or if the		
Skin protection	See Hand protection belo	w							
	Elbow length PVC gloves When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. For amines:								
Hands/feet protection	When handling corro NOTE: The material may prr equipment, to avoid: The selection of suitable manufacturer. Where the and has therefore to be of For amines:	sive liquids, wear transduce skin sensitisa all possible skin con gloves does not onl chemical is a prepa hecked prior to the	tion in predisposed individuals tact. y depend on the material, but aration of several substances, application.	s. Care must be tak also on further mar the resistance of th	en, when removing the sof quality which the glove material the soft the sof	th vary from mar	nufacturer to		
	Note: The material may preequipment, to avoid: The selection of suitable manufacturer. Where the and has therefore to be of For amines: Gloves must only be	sive liquids, wear treated and the service of the s	tion in predisposed individuals stact. y depend on the material, but aration of several substances,	s. Care must be tak also on further mar the resistance of th	en, when removing the sof quality which the glove material the soft the sof	th vary from mar	nufacturer to		
Hands/feet protection Body protection	When handling corro NOTE: The material may prr equipment, to avoid: The selection of suitable manufacturer. Where the and has therefore to be of For amines:	sive liquids, wear treated to the same all possible skin con gloves does not onlichemical is a preparated prior to the worn on clean hand	tion in predisposed individuals tact. y depend on the material, but aration of several substances, application.	s. Care must be tak also on further mar the resistance of th	en, when removing the sof quality which the glove material the soft the sof	th vary from mar	nufacturer to		

Respiratory protection

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

- Latridge 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

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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

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

Where engineering controls are not feasible and work practices do not reduce airborne amine concentrations below recommended exposure limits, appropriate respiratory protection should be used. In such cases, air-purifying respirators equipped with cartridges designed to protect against amines are recommended.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties Appearance Not Available Physical state Liquid Relative density (Water = 1) 12 lbs/gal Partition coefficient n-octanol Odour Not Available Not Available / water Odour threshold Not Available Auto-ignition temperature (°C) Not Available Decomposition pH (as supplied) Not Available Not Available temperature (°C) Melting point / freezing point Not Available Viscosity (cSt) Not Available Initial boiling point and boiling Not Available Molecular weight (g/mol) Not Available range (°C)

Not Available

Not Available

Not Available

Not Available

Explosive properties

Oxidising properties

mN/m)

VOC g/L

95

Surface Tension (dyn/cm or

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

SECTION 10 Stability and reactivity

Vapour density (Air = 1)

Flash point (°C)

Evaporation rate

Upper Explosive Limit (%)

Flammability

Not Available

Not Applicable

Not Available

Not Available

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	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce severe damage to
Inhaled	the health of the individual. Relatively small amounts absorbed through the lungs may prove fatal. Inhalation of amine vapours may cause irritation of the mucous membrane of the nose and throat, and lung irritation with respiratory distress and cough. Swelling and inflammation of the respiratory tract is seen in serious cases; with headache, nausea, faintness and anxiety. Inhalation of benzyl alcohol may affect breathing (causing depression and paralysis of breathing and lower blood pressure.
Ingestion	Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow. Amines without benzene rings when swallowed are absorbed throughout the gut. Corrosive action may cause damage throughout the gastrointestinal tract. 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.

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Seal-boxing large dozes of elevated allowing may pass abdominate journal, sources, sources, and and extreme and many terestics, elevatives, without charged and contact with the date. The material can produce account of the many terms of the date of the date of the contact with the date. The contact with the material range damage in the south of the relievability of the contact with the material range damage in the south of the relievability of the contact with the material range damage and the south of the relievability of the contact with the material range damage in the south of the relievability of the contact with the material range of the contact with the date. The contact with the material range of the contact with the date of the contact with the contac								
Six notact with the medical may decays the land in file individual, explaints office any seal to following absorption. Six notact with the medical may decays the land in the proposed part and burst, brother that their may develop in the control can are may be self. Open can be control with a control or many the self. Open can be control to the proposed or the material formation of the can Direct content can cause burst. Open can be control to the can be control to the material formation of the can Direct control can cause burst. Open can be control to the material formation of the can be control to the material formation of the can be control to the material formation of the can be control to the can be control to the can cause can can be can can be can can be can can be can can can be can can can be can can be can can be		ner	vous system, and cause headache, sleepin			•		
Direct eye contact with corroleve bases on cause pair and Dums. There may be swelling, spithelium destruction, closching of the comes and inflammation of the instruction of the instruction of the bioman of the instruction of the instructio	Skin Contact	Skir Skir gela Vola Ope Entr	Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep. Volatile amine vapours produce irritation and inflammation of the skin. Direct contact can 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					
Repeated or prolonged exposure to corrovieve may result in the entoin of teeth, inflammatory and uterather changes in the most and necrosis (president of the flaw form further inflation, with county, and frequent attacks of bornobing parameters may result in already disease, involving difficulty breathing and related between the control present and provided the process of the present population. Tools change of serious damage for he alles are serialisation resonated with the metalisation are serialisation in constant with the metalisation are serialisation resonated that the center of the control are serialisation in acceptance of the present population. Tools change of serious damage for he as expected in 6 for personal that is not as substance which can produce server evelocities from the form of the process of the produce server evelocities and the resonation of the process of the product with size and streams of the product of the process of the process of the product with size and streams of the product with the product of the process and the product of the product of the process and the product of the process of the product of the process of the pro	Eye	Dire infla Vap	Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Vapours of volatile amines irritate the eyes, causing excessive secretion of tears, inflammation of the conjunctiva and slight swelling of the					
Not Available Not Available Not Available Not Available	Chronic	Rep (ran- Lon Inha Skir Toxi This prod Amp Sub Prol may Sen Inha seve	peated or prolonged exposure to corrosives ely) of the jaw. Bronchial irritation, with cou- g-term exposure to respiratory irritants may aling this product is more likely to cause a son contact with the material is more likely to ic: danger of serious damage to health by po- ic material can cause serious damage if one duce severe defects. ple evidence from experiments exists that the estance accumulation, in the human body, in longed or repeated exposure to benzyl alcony affect behaviour and the central nervous sistisation may give severe responses to ver- ealation of epoxy resin amine hardeners (inco- eral days after cessation of the exposure. E	may result in the gh, and frequent a result in airways sensitisation react cause a sensitisa orolonged exposu is exposed to it fere is a suspicional of a suspicional orolonged exposured may occur and may occur and may occur and may low levels of exposed to it fere is a suspicional orolonged exposed may cause all gray of the property low levels of exposed in the property levels of exp	erosio attacks diseas diseas ion in stion rea through this may caus lergic of toms sixposures and a	n of teeth, inflammatory and ulcerative changes in the mouth and necrosis of bronchial pneumonia may ensue. se, involving difficulty breathing and related whole-body problems. some persons compared to the general population. In some persons compared to the general population. In some persons compared to the general population. In contact with skin and if swallowed. It can be assumed that it contains a substance which can interial directly reduces fertility. The some concern following repeated or long-term occupational exposure. It can be assumed that it contains a substance which can interial directly reduces fertility. The some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some concern following repeated or long-term occupational exposure. It is some		
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TOXICITY	Epoxy 550 Wheat Pa	rt B	-					
Dermal (rabbit) LD50: >1000 mg/kg ^[1] Eye (rabbit): 10uL/24h SEVERE Inhalation(Mouse) LC50: 0.4 mg/l4h ^[2] Eye: adverse effect observed (irreversible damage) ^[1] Oral (Rat) LD50: 350 mg/kg ^[1] Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): SEVERE Corrosive ** * * * * * * * * * * * * * * * * *			TTOT / TTAILED TO			THE THE PARTY OF T		
Dermal (rabbit) LD50: >1000 mg/kg ^[1] Eye (rabbit): 10uL/24h SEVERE Inhalation(Mouse) LC50: 0.4 mg/l4h ^[2] Eye: adverse effect observed (irreversible damage) ^[1] Oral (Rat) LD50: 350 mg/kg ^[1] Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): SEVERE Corrosive ** * * * * * * * * * * * * * * * * *			TOXICITY	IRRITATION				
Inhalation(Mouse) LC50: 0.4 mg/l4h; Eye: adverse effect observed (irreversible damage) 1					ıL./24h	SEVERE		
4.4*-methylenebis(cyclohexylamine) Oral (Rat) LD50: 350 mg/kg ^[1] Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): SEVERE Corrosive *** * [Air Products and Chemicals] ** [BASF CCINFO 1882394] Skin: adverse effect observed (corrosive) ^[1] TOXICITY Dermal (rabbit) LD50: 1700 mg/kg ^[1] Oral (Rat) LD50: >200<2000 mg/kg ^[1] Skin: adverse effect observed (irritating) ^[1] TOXICITY IRRITATION Dermal (rabbit) LD50: 2000 mg/kg ^[1] Skin: adverse effect observed (irritating) ^[1] Feye: adverse effect observed (irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2] Skin (rabbit): 0.75 mg open SEVERE Inhalation(Rat) LC50: >4.178 mg/L4h ^[1] Eye: adverse effect observed (irritating) ^[1] Oral (Rat) LD50: 1230 mg/kg ^[2] Skin (rabbit): 10 mg/24h open-mild Skin (rabbit): 10 mg/24h open-mild Skin: no adverse effect observed (not irritating) ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Eye: rabbit): 100 mg/24h-moderate Skin (rabbit): 500 mg/48h-moderate Skin (rabbit): 500 mg/48h-moderate Skin: no adverse effect observed (not irritating) ^[1] Titanium Dioxide Ti02 TOXICITY IRRITATION RRITATION RRITATION IRRITATION IRRITATION RRITATION RRITATION IRRITATION RRITATION								
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TOXICITY IRRITATION								
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Dral (Rat) LD50: >200<2000 mg/kg ^[1] Skin: adverse effect observed (corrosive) ^[1]	4.2 avalahavanahia/mathulam	:\						
TOXICITY IRRITATION Eye (rabbit): 0.75 mg open SEVERE Inhalation(Rat) LC50: >4.178 mg/L4h ^[1] Eye: adverse effect observed (irritating) ^[1] Skin (man): 16 mg/48h-mild Skin: no adverse effect observed (not irritating) ^[1]	1,3-cyclonexanebis(methylam	ine)						
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Skin: no adverse effect observed (not irritating)[1]	benzyi aico	onoi	Oral (Rat) LD50: 1230 mg/kg ^[2]		S	kkin (man): 16 mg/48h-mild		
Toxicity dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 890 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (human): 500 mg/48h - mild Skin (rabbit):500 mg/48h-moderate Skin: no adverse effect observed (not irritating) ^[1] Titanium Dioxide Ti02 TOXICITY IRRITATION IRRITATION					S	kin (rabbit):10 mg/24h open-mild		
dermal (rat) LD50: >2000 mg/kg ^[1] 2,6-di-tert-butyl-4-methylphenol 2,6-di-tert-butyl-4-methylphenol Cral (Rat) LD50: 890 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (human): 500 mg/48h - mild Skin (rabbit):500 mg/48h-moderate Skin: no adverse effect observed (not irritating) ^[1] Titanium Dioxide Ti02 TOXICITY IRRITATION					S	kin: no adverse effect observed (not irritating) ^[1]		
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Skin (rabbit):500 mg/48h-moderate Skin: no adverse effect observed (not irritating) ^[1] Titanium Dioxide Ti02 TOXICITY IRRITATION	2,6-di-tert-butyl-4-methylphe	enol	Oral (Rat) LD50: 890 mg/kg ^[2]		-	`		
Skin: no adverse effect observed (not irritating) ^[1] Titanium Dioxide Ti02 TOXICITY IRRITATION								
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			TOXICITY					

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	Inhalation(Rat) LC50: >2.28 mg/l4h ^[1]	Skin: no adverse effect observed (not irritating) ^[1]				
	Oral (Rat) LD50: >=2000 mg/kg ^[1]					
	TOXICITY	IRRITATION				
	Dermal (rabbit) LD50: 960 mg/kg ^[2]	Eye (rabbit): 0.75 mg/24h SEVERE				
2-propoxyethanol	Inhalation(Rat) LC50: >2300 ppm4hl ^{1]}	Eye (rabbit): 100 mg - SEVERE				
	Oral (Rat) LD50: 3089 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h -mild				
		Skin (rabbit). 500 mg/241 -mild Skin: adverse effect observed (irritating) ^[1]				
		Onli. adverse effect observed (imaling).				
	TOXICITY	IRRITATION				
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (rabbit): 100 mg - SEVERE				
4-nonylphenol, branched	Oral (Rat) LD50: 1000-2500 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]				
		Skin (rabbit): 500 mg/24h-SEVERE				
		Skin: adverse effect observed (corrosive) ^[1]				
	'alue obtained from Europe ECHA Registered Substance cified data extracted from RTECS - Register of Toxic Eff	es - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise fect of chemical Substances				
Epoxy 550 Wheat F	possibility of producing mutation. Allergic reactions involving the respiratory trac rapidly. Allergic potential of the allergen and produced the strength of the allergen and produced the strength of the s	exposure to the material may result in a possible risk of irreversible effects, with the stare usually due to interactions between IgE antibodies and allergens and occur eriod of exposure often determine the severity of symptoms. In a star of exposure of exposure of exposure of exposure of exposure in mune-complexes of the IgG type; cell-mediated reactions y is of the delayed type with onset up to four hours following exposure.				
4,4'-METHYLENEBIS(CYCLOHEXYLAN	conjunctivitis.					
1,3-CYCLOHEXANEBIS(METHYLAN		Gastrointestinal changes recorded. For 1,3-cyclohexanebis(methylamine) (CHBM): Animal testing shows that CHBMhas low to moderate acute toxicity by swallowing and moderate acute toxicity by skin contact. It is corrosive to the eyes and skin.				
BENZYL ALCO	of negligible concern due to limited similarity ir For benzoates: Benzyl alcohol, benzoic acid and its sodium ar alcohol are considered to be unharmful and of This is a member or analogue of a group of be properties as flavouring substances in food. In with a wide safety margin. The aryl alkyl alcohol (AAA) fragrance ingredie	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 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,				
2,6-DI-TERT-BUTYL-4-METHYLPHI	observed after long-term administration of BHT their parent compound, only a few studies hav metabolite BHT-QM (syn: 2,6-di-tert-butyl-1,4-compound which is considered to play a signif been reported to exert prooxidant effects under medium in aerobic conditions, an enhancemen reported that at high aeration rate, BHT can re yielding BHT-phenoxyl radical and superoxide be a critical factor depending on the reductant be relatively stable. Furthermore, the potential reported that not only BHT but also its metabore reactions during biotransformation, a large nur concentration depend on the environmental cc in vivo digestion processes have not been sturvitro gastrointestinal digestion model, both the toxic metabolite could remain bioaccessible for other synthetic antioxidants, BHT is a potent in is oxidation catalyzed by cytochrome P450. St BHT. As for acute oral toxicity, although this is patients who suffered acute neurotoxicity and to cure recurrent genital herpes. Regarding sh dose-related increase in the incidence and sex chicken a marked congestion of the liver and h with hemorrhaging. It has to be noted that the the short-term and subchronic toxicity studies. genotoxic risk, because most of the studies ca deoxyribonucleic acid (DNA). Nevertheless, it 7 of its metabolites on in vitro DNA cleavage w 1,4-dione, CAS RN: 719-22-2), BHT-CHO (syr 2,6-di-tert-butyl-4-methyl-4-hydroperoxy-2,5-c; Food Additives and Nutrient Sources Added to	anges, reduction in body weight gain, and decrement in body weight have been T to mice and rats. Toxic effects may be attributed more to BHT metabolites than to be focused on their carcinogenicity and toxicity, and not only on that of BHT. The methylene-2,5-cyclohexadien-1-one, CAS RN: 2607-52-5) is a very reactive ficant role in hepatoxicity, pneumotoxicity, and skin tumor promotion in mice. BHT has a certain conditions. Thus, when BHT was added in excess to a wheat seedling int of the generation rate of superoxide anion was observed. Some authors have exact with molecular oxygen rather than with the reactive oxygen species present, a nion. In addition, the phenolic radical itself may undergo redox recycling which can involved However, it has to be noted that BHT-phenoxyl radical has been reported to reactivity of BHT-derived metabolites should be taken into account; some studies bilites, such as BHT-Q and BHT-QM, can act as prooxidant. As BHT undergoes several moler of intermediate metabolites have been identified. However, their nature and onditions and on the animal species. Although the changes undergone by BHT during died, after submission of a fluid deep-frying fat containing BHT and BHT-QM to an in use were detected in the digested samples. These results indicate that BHT and its in intestinal absorption. Studies concerning BHT metabolism have shown that, unlike inducer of the microsomal monooxygenase system and its major route of degradation tudies have reported potential toxicity derived from the ingestion or administration of considered low in animals, it must be noted that 2 clinical cases were reported in gastritis after ingesting a high dose of BHT (4 and 80 g without medical prescription) iort-term subchronic toxicity studies, it has been reported that BHT causes verity of toxic nephrosis in mice, nephrotoxicity and pneumotoxicity in rats, and in kindney, as well as diffuse enlargement of the liver with rounded borders and rupture a EFSA Panel (2012) pointed out certain inconsistencies in the fin				

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addressed the carcinogenicity and chronic toxicity of BHT and its metabolites in rodents with contradictory results. Thus, mice-fed dietary BHT for a year developed marked hyperplasia of the hepatic bile ducts with an associated subacute cholangitis Moreover. after 104 wk of administration of BHT, the formation of hepatocellular tumors in male mice was observed. Several studies have demonstrated the potential of BHT to act either as a tumor promotor or as a tumor suppressor, modulating the carcinogenicity of some well-known carcinogens. Barbara Nieva-Echevarria etal: Comprehensive reviews in Food Science and Food Safety, Vol 14, Dec 2014 http://onlinelibrary.wiley.com/doi/10.1111/1541-4337.12121/pdf for bridged alkyl phenols: Acute toxicity: Acute oral and dermal toxicity data are available for all but two of the substances in the group. The data show that acute toxicity of these substances is low. Data show that acute toxicity following oral and topical use of hindered phenols is low. They are not proven to cause mutations. 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. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. There have been no specific human studies, but the consistency of the animal experiments emphasizes that human exposure should be dramatically reduced. For ethylene glycol monoalkyl ethers and their acetates (EGMAEs): Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates. 2-PROPOXYETHANOL EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). Further, rapid conversion of the aldehydes by aldehyde dehydrogenase produces alkoxyacetic acids, which are the predominant urinary metabolites of mono substituted glycol ethers Acute Toxicity: Oral LD50 values in rats for all category members range from 739 (EGHE) to 3089 mg/kg bw (EGPE), with values increasing with decreasing molecular weight. For nonylphenol and its compounds: Alkylphenols like nonylphenol and bisphenol A have estrogenic effects in the body. They are known as xenoestrogens. These substances are intravenous anaesthetic agents. They have a very low level of acute toxicity; they may cause skin irritation. 4-NONYLPHENOL, BRANCHED For nonviphenol: Animal testing suggests that repeated exposure to nonylphenol may cause liver changes and kidney dysfunction. Nonylphenol was not found to cause mutations or chromosomal aberrations Gastrointestinal changes, liver changes, effects on newborn recorded. Epoxy 550 Wheat Part B & 4,4'-METHYLENEBIS(CYCLOHEXYLAMINE) Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a & 1,3-CYCLOHEXANEBIS(METHYLAMINE) non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of & 2,6-DI-TERT-BUTYL-4-METHYLPHENOL highly irritating compound. & 4-NONYLPHENOL, BRANCHED Epoxy 550 Wheat Part B & 4,4'-METHYLENEBIS(CYCLOHEXYLAMINE) The following information refers to contact allergens as a group and may not be specific to this product. & 1.3-CYCLOHEXANEBIS(METHYLAMINE) Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. & BENZYL ALCOHOL Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact Epoxy 550 Wheat Part B & BENZYL dermatitis occurs. 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 Overexposure to most of these materials may cause adverse health effects. Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, Epoxy 550 Wheat Part B & nausea, faintness, anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and 4,4'-METHYLENEBIS(CYCLOHEXYLAMINE) swelling of the face, which are usually transient. There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. 4,4'-METHYLENEBIS(CYCLOHEXYLAMINE) The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function. & 1,3-CYCLOHEXANEBIS(METHYLAMINE) 4.4'-METHYLENEBIS(CYCLOHEXYLAMINE) & BENZYL ALCOHOL & 2,6-DI-The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the TERT-BUTYL-4-METHYLPHENOL & production of vesicles, scaling and thickening of the skin. 2-PROPOXYETHANOL 1,3-CYCLOHEXANEBIS(METHYLAMINE) & The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to 2-PROPOXYETHANOL & irritants may produce conjunctivitis. 4-NONYLPHENOL, BRANCHED 1.3-CYCLOHEXANEBIS(METHYLAMINE) & The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, 4-NONYLPHENOL, BRANCHED swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion Reproductivity V × Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin V v STOT - Repeated Exposure sensitisation

Legend:

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

Data available to make classification

Aspiration Hazard

SECTION 12 Ecological information

Mutagenicity

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Epoxy 550 Wheat Part B	Endpoint	Test Dur	ation (hr)	Species	Value)	;	Source		
Epoxy 550 Wheat Fair B	Not Available	Not Avail	able	Not Available	Not A	vailable	1	Not Availa	able	
	Endpoint	Test Duration	(hr) Sne	ecies		Value			Source	
4,4'-methylenebis(cyclohexylamine)	EC50	72h	. ,	ae or other aquatic plants			<=200mg/l		2	
	EC50	48h		istacea		6.84mg/l	~=200111g/1		2	
	LC50	96h	Fis			68mg/l			2	
	NOEC(ECx)	336h	Fis						2	
	NOEC(ECX)	33011	FIS	11		>1mg/l			2	
	Endpoint	Test Duration	on (hr)	Species			Value		Source	
	EC50	72h		Algae or other aquatic p	lants		29.7mg/	/I	2	
1,3-cyclohexanebis(methylamine)	EC50	48h		Crustacea			33.1mg/	/I	2	
	LC50	96h		Fish			130mg/l	1	2	
	NOEC(ECx)	72h		Algae or other aquatic p	lants		13.7mg/	/I	2	
	Endpoint	Test Duratio	ori (Nr)	Species	-4-		Value		Source	
benzyl alcohol	EC50	96h		Algae or other aquatic pla			76.828mg/	l	2	
	EC50	72h		Algae or other aquatic pla	nts		500mg/l		2	
	EC50	48h		Crustacea			230mg/l		2	
	LC50	96h		Fish			10mg/l		4	
	NOEC(ECx)	336h		Fish			5.1mg/l		2	
	Endpoint	Test Duration (h	nr) Spe	pecies Valu		Value	ue Sourc		9	
	BCF	1344h	Fish	ish		220-2800		7		
	EC50	72h	Alg	Algae or other aquatic plants		>0.42mg/l		1		
	EC50	48h		stacea		>0.17m		2		
2,6-di-tert-butyl-4-methylphenol	EC50	96h	Ala	ae or other aquatic plants		0.758m			2	
	ErC50	72h		ae or other aquatic plants		>0.42m		1		
	LC50	96h	Fisl			>0.5mg		Not Av	ailable	
	EC0(ECx)	48h Crusta		stacea		>=0.31		1		
	Endpoint	Test Duration	n (hr)	Species		Val	ue		Source	
	BCF	1008h		Fish		<1.	1-9.6		7	
	EC50	72h		Algae or other aquatic plant	ts	3.75-7.58mg/l			4	
Titanium Dioxide Ti02	EC50	48h		Crustacea		1.9mg/l			2	
	EC50	96h		Algae or other aquatic plant	ts	179	9.05mg/l		2	
	LC50	96h		Fish		1.8	.85-3.06mg/l		4	
	NOEC(ECx)	672h		Fish		>=().004mg/L		2	
	Endpoint	Test Duration	ı (hr)	pecies		Value		Sourc	e	
	EC50	72h		lgae or other aquatic plants				2		
2-propoxyethanol	LC50	96h		ish		>100mg/l >91.3mg/l		Not Available		
	NOEC(ECx)	72h		lgae or other aquatic plants		>=100		2		
		'	1	-						
	Endpoint	Test Duration	(hr) Spe	cies	\	/alue		Sour	се	
	EC50	72h	Alga			0.027-0.033	Bmg/l	4		
	EC50	48h		stacea).14mg/l		1		
4-nonylphenol, branched	EC50	96h	Alga	e or other aquatic plants).027mg/l		1		
	NOEC(ECx)	672h).0039mg/l		1		
	. ,			Crustacea Fish		0.0039ffg/l		Not Available		

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

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For Ethelene Glycol Monoalkyl Ethers and their Acetates: log BCF: 0.463 to 0.732;

LC50 : 94 to > 5000 mg/L. (aquatic species).

For benzyl alcohol: \log Kow : 1.1Koc : <5Henry's atm m3 /mol: 3.91E-07BOD 5: 1.55-1.6,33-62%COD : 96%ThOD : 2.519BCF : 4

Bioaccumulation: Not significant

Anaerobic Effects: Significant degradation.

Effects on algae and plankton: Inhibits degradation of glucose

Degradation Biological: Significant processes

Abiotic: RxnOH*,no photochem

Ecotoxicity: Fish LC50 (48 h): fathead minnow 770 mg/l; (72 h): 480 mg/l; (96 h) 460 mg/l.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
4,4'-methylenebis(cyclohexylamine)	HIGH	HIGH
1,3-cyclohexanebis(methylamine)	LOW	LOW
benzyl alcohol	LOW	LOW
2,6-di-tert-butyl-4-methylphenol	HIGH	HIGH
Titanium Dioxide Ti02	HIGH	HIGH
2-propoxyethanol	LOW	LOW
4-nonylphenol, branched	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
4,4'-methylenebis(cyclohexylamine)	LOW (LogKOW = 3.2649)
1,3-cyclohexanebis(methylamine)	LOW (LogKOW = 1.0688)
benzyl alcohol	LOW (LogKOW = 1.1)
2,6-di-tert-butyl-4-methylphenol	HIGH (BCF = 2500)
Titanium Dioxide Ti02	LOW (BCF = 10)
2-propoxyethanol	LOW (LogKOW = 0.0755)
4-nonylphenol, branched	LOW (BCF = 271)

Mobility in soil

Ingredient	Mobility
4,4'-methylenebis(cyclohexylamine)	LOW (KOC = 672.4)
1,3-cyclohexanebis(methylamine)	LOW (KOC = 914.6)
benzyl alcohol	LOW (KOC = 15.66)
2,6-di-tert-butyl-4-methylphenol	LOW (KOC = 23030)
Titanium Dioxide Ti02	LOW (KOC = 23.74)
2-propoxyethanol	HIGH (KOC = 1)
4-nonylphenol, branched	LOW (KOC = 56010)

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

area.

Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ Recycle wherever possible.
- P Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

SECTION 14 Transport information

Labels Required



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Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

14.1. UN number or ID number	2735		
14.2. UN proper shipping name	Amine, liquid, corrosive, n.o.s. (contains 1,3-cyclohexanebis(methylamine)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	8 Not Applicable	
14.4. Packing group	III		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for user	Hazard Label 8 Special provisions IB3, T7, TP1, TP28		

Air transport (ICAO-IATA / DGR)

14.1.	UN number	2735		
14.2.	UN proper shipping name	Amines, liquid, corrosive, n.o.s. (contains 1,3-cyclohexanebis(methylamine)		
		ICAO/IATA Class	8	
14.3.	Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
Class(es)	ERG Code	8L		
14.4.	Packing group	III		
14.5.	Environmental hazard	Environmentally hazardous		
	14.6. Special precautions for user	Special provisions		A3 A803
		Cargo Only Packing Instructions		856
		Cargo Only Maximum Qty / Pack		60 L
14.6.		Passenger and Cargo Packing Instructions		852
		Passenger and Cargo Maximum Qty / Pack		5 L
		Passenger and Cargo Limited Quantity Packing Instructions		Y841
		Passenger and Cargo Limited Ma	ximum Qty / Pack	1 L

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2735		
14.2. UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains 1,3-cyclohexanebis(methylamine)		
14.3. Transport hazard	IMDG Class	8	
class(es)	IMDG Subsidiary Haza	Not Applicable	
14.4. Packing group			
14.5 Environmental hazard	Marine Pollutant		
14.6. Special precautions for		F-A , S-B 223 274	
user	l	5 L	

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

Not Applicable

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

Product name	Group
4,4'-methylenebis(cyclohexylamine)	Not Available
1,3-cyclohexanebis(methylamine)	Not Available
benzyl alcohol	Not Available
2,6-di-tert-butyl-4-methylphenol	Not Available

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Product name	Group
Titanium Dioxide Ti02	Not Available
2-propoxyethanol	Not Available
4-nonylphenol, branched	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
4,4'-methylenebis(cyclohexylamine)	Not Available
1,3-cyclohexanebis(methylamine)	Not Available
benzyl alcohol	Not Available
2,6-di-tert-butyl-4-methylphenol	Not Available
Titanium Dioxide Ti02	Not Available
2-propoxyethanol	Not Available
4-nonylphenol, branched	Not Available

SECTION 15 Regulatory information

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

4,4'-methylenebis(cyclohexylamine) is found on the following regulatory lists

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

1,3-cyclohexanebis(methylamine) is found on the following regulatory lists

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

benzyl alcohol 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)

2,6-di-tert-butyl-4-methylphenol is found on the following regulatory lists

 $International\ Agency\ for\ Research\ on\ Cancer\ (IARC)\ -\ Agents\ Classified\ by\ the\ IARC\ Monographs\ -\ Not\ Classified\ as\ Carcinogenic$

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 - Massachusetts - Right To Know Listed Chemicals

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

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

2-propoxyethanol is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

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

4-nonylphenol, branched is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

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

US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification Requirements

US TSCA Section 4/12 (b) - Sunset Dates/Status

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Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	Yes
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	Yes
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

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

None Reported

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
2807-30-9	5-10	2-propoxyethanol
84852-15-3	0.1-1	4-nonylphenol, branched
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

🔥 WARNING: This product can expose you to chemicals including cumene, silica amorphous, Titanium Dioxide Ti02, silica crystalline - quartz, distillates, petroleum, light, hydrotreated, carbon black, which are known to the State of California to cause cancer, and toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

Additional State Regulatory Information

Not Applicable

National Inventory Status

National inventory Status	
National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (4,4'-methylenebis(cyclohexylamine); 1,3-cyclohexanebis(methylamine); benzyl alcohol; Titanium Dioxide Ti02; 2-propoxyethanol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes

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National Inventory	Status	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (4,4'-methylenebis(cyclohexylamine); 1,3-cyclohexanebis(methylamine); 2-propoxyethanol)	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	01/08/2024
Initial Date	06/19/2020

CONTACT POINT

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

SDS Version Summary

Version	Date of Update	Sections Updated
5.8	01/08/2024	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.

Definitions and abbreviations

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

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