

ICP Construction

Version No: 1.2

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

Issue Date: 03/01/2017 Print Date: 03/01/2017 S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Everlife WB (HG)-Safety Red F52183	
Synonyms	able	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses Paint

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

Registered company name	CP Construction		
Address	Dascomb Road Massachusetts Andover United States		
Telephone	978-623-9980		
Fax	Not Available		
Website	Not Available		
Email	Not Available		

Emergency phone number

0,1	
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

Classification	Skin Sensitizer Category 1, Reproductive Toxicity Category 2, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3		

GHS label elements	
SIGNAL WORD	WARNING

Hazard statement(s)

H317	May cause an allergic skin reaction.	
H361	Suspected of damaging fertility or the unborn child.	
H412	Harmful to aquatic life with long lasting effects.	

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

P281 Use personal protective equipment as required.

Precautionary statement(s) Response			
P308+P313	IF exposed or concerned: Get medical advice/attention.		
P363	Wash contaminated clothing before reuse.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
Precautionary statement(s)	Storage		
Precautionary statement(s)	-		
Precautionary statement(s) P405	Store locked up.		
	Store locked up.		

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
not avail.	65.16-65.2	Non-hazardous ingredient
1310-73-2	NotSpec.	sodium hydroxide
2634-33-5	NotSpec.	1,2-benzisothiazoline-3-one
124-68-5	0.1	monoisobutanolamine
97-88-1	<0.01	n-butyl methacrylate
7732-18-5	0.7-0.74	water
29911-28-2	4	dipropylene glycol mono-n-butyl ether - alpha isomer
111-77-3	1.8	diethylene glycol monomethyl ether
112-34-5	0.35	diethylene glycol monobutyl ether
19224-26-1	0.01	propylene glycol dibenzoate
1330-20-7	0.3-0.6	xylene
122-99-6	0.1-0.3	ethylene glycol phenyl ether
100-41-4	0.1-0.3	ethylbenzene
7632-00-0	0.1	sodium nitrite
2425-85-6	5.5	C.I. Pigment Red 3
1047-16-1	1.4	C.I. Pigment Violet 19

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: 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.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice. BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
Methylhippu-ric acids in urine	1.5 gm/gm creatinine	End of shift	
	2 mg/min	Last 4 hrs of shift	

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation.

 Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains.
If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling discharging or handling operations. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid solt with incompatible materials. When handling. DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Xylenes: may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride attack some plastics, rubber and coatings may generate electrostatic charges on flow or agitation due to low conductivity. Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents. Aromatics can react exothermically with bases and with diazo compounds. For alkyl aromatics: The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring. Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) - this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids. Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides. Hock-rearrangement by the influence of strong acids converts the hydroperoxides to hemiacetals. Peresters formed from the hydroperoxides undergo Criegee rearrangement easily. Alkali metals accelerate the oxidation while CO2 as co-oxidant enhances the selectivity. Microwave conditions give improved yields of the oxidation products. Photo-oxidation products may occur following reaction with hydroxyl radicals and NOx - these may be components of ph

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 Levels (PELs) - Table Z1	sodium hydroxide	Sodium hydroxide	2 mg/m3	Not Available	Not Available	Not Available

US ACGIH Threshold Limit Values (TLV)	sodium hydroxide	Sodium hydroxide	Not Available	Not Available	2 mg/m3	TLV® Basis: URT, eye, & skin irr	
US NIOSH Recommended Exposure Limits (RELs)	sodium hydroxide	Caustic soda, Lye, Soda lye, Sodium hydrate	Not Available	Not Available	2 mg/m3	Not Available	
US ACGIH Threshold Limit Values (TLV)	diethylene glycol monobutyl ether	Diethylene glycol monobutyl ether	10 ppm	Not Available	Not Available	TLV® Basis: Hematologic, liver & kidney eff	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	xylene	Xylenes (o-, m-, p-isomers)	435 mg/m3 / 100 ppm	Not Available	Not Available	Not Available	
US ACGIH Threshold Limit Values (TLV)	xylene	Xylene (all isomers)	100 ppm	150 ppm	Not Available	TLV® Basis: URT & eye irr; CNS impair; BEI	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ethylbenzene	Ethyl benzene	435 mg/m3 / 100 ppm	Not Available	Not Available	Not Available	
US ACGIH Threshold Limit Values (TLV)	ethylbenzene	Ethyl benzene	20 ppm	Not Available	Not Available	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair; BEI	
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethylbenzol, Phenylethane	435 mg/m3 / 100 ppm	545 mg/m3 / 125 ppm	Not Available	Not Available	

EMERGENCY LIMITS	Metazial name			TEEL O	TEELO
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
sodium hydroxide	Sodium hydroxide		Not Available	Not Available	Not Available
monoisobutanolamine	Isobutanol-2-amine		17 mg/m3	190 mg/m3	570 mg/m3
n-butyl methacrylate	Methyl butylacrylate, 2-; (Butyl methacrylate)		19 mg/m3	210 mg/m3	1,300 mg/m3
diethylene glycol monomethyl ether	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)		3.4 ppm	37 ppm	220 ppm
diethylene glycol monobutyl ether	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)		30 ppm	33 ppm	200 ppm
xylene	Xylenes		Not Available	Not Available	Not Available
ethylene glycol phenyl ether	Phenoxyethanol, 2-; (Phenyl cellosolve)		1.5 ppm	16 ppm	97 ppm
ethylbenzene	Ethyl benzene		Not Available	Not Available	Not Available
sodium nitrite	Sodium nitrite		6.4 mg/m3	71 mg/m3	240 mg/m3
Ingredient	Original IDLH Revised IDLH				
Non-hazardous ingredient	Not Available Not Available				
sodium hydroxide	250 mg/m3 10 mg/m3				
1,2-benzisothiazoline-3-one	Not Available Not Available				
monoisobutanolamine	Not Available	lable			
n-butyl methacrylate	Not Available	able			
water	Not Available	Not Avail	able		
dipropylene glycol mono-n-butyl ether - alpha isomer	Not Available	Not Avail	Not Available		
diethylene glycol monomethyl ether	Not Available	Not Avail	able		
diethylene glycol monobutyl ether	Not Available	Not Avail	Not Available		
propylene glycol dibenzoate	Not Available	Not Avail	Not Available		
xylene	1,000 ppm	900 ppm	900 ppm		
ethylene glycol phenyl ether	Not Available	Not Avail	Not Available		
ethylbenzene	2,000 ppm	800 [LEL]	800 [LEL] ppm		
sodium nitrite	Not Available	Not Available			
C.I. Pigment Red 3	Not Available	ailable Not Available			
C.I. Pigment Violet 19	Not Available	able			

Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and
Appropriate engineering controls	"removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
	General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

	Type of Contaminant:		Air Speed:	
	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min)	
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)			
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial vel air motion).	ocity into zone of very high rapid	2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extr of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction fan, for example, should be a solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideration apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when	should be adjusted, accordingly, a a minimum of 1-2 m/s (200-400 f/m ons, producing performance deficit	fter reference to hin) for extraction of is within the extraction	
Personal protection				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irrita lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove at the first signs of eye redness or irritation - lens should be removed in a clean environment only Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 	a review of lens absorption and ac trained in their removal and suitab contact lens as soon as practicabl	lsorption for the class of le equipment should be e. Lens should be remo	
Skin protection	See Hand protection below			
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NDTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, whe all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destrems and subtable gloves does not only depend on the material, but also on further marks of quadite chemical is a preparation of several substances, the resistance of the glove material can not be care to the application. The exact break through time for substances has to be obtained from the manufacturer of the protectiv choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. A thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of glov frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation or minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (b EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken i Contaminated gloves should be replaced. For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. thould be emphasised that glove thickness is not necessarily a good predictor of glove resistance to glove vill be dependent on the exact composition of the glove material	oyed. ality which vary from manufacturer alculated in advance and has there e gloves and has to be observed v After using gloves, hands should be ves include: al equivalent). In class of 5 or higher (breakthroug include: In class of 5 or higher (breakthroug into account when considering glov o a specific chemical, as the perm build also be based on consideratio del. Therefore, the manufacturers' acific tasks. For example: anual dexterity is needed. However is, then disposed of. (as well as a chemical) risk i.e. wh	to manufacturer. Where fore to be checked prior when making a final a washed and dried h time greater than 240 minutes according to wes for long-term use. teation efficiency of the n of the task technical data should ar, these gloves are only there there is abrasion or	
Body protection	See Other protection below			
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. 			

	► Eye wash unit.
Thermal hazards	Not Available

Respiratory protection

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. Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class 1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

* - Continuous Flow

** - Continuous-flow or positive pressure demand.

A(All classes) = Organic vapours, B AUS or B1 = Acid gases, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deg C)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Text		
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 (g/L)	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. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers. Xylene is a central nervous system depressant

Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.			
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	This material can cause eye irritation and damage in some persons.			
Chronic	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. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.			

Everlife WB (HG)-Safety	ΤΟΧΙΟΙΤΥ		IRF	RITATION		
Red F52183	Not Available		Not	Not Available		
	TOXICITY IRRITATION		RITATION			
Non-hazardous ingredient	Not Available		Not	t Available		
	ΤΟΧΙΟΙΤΥ	IRI	RITATI	ION		
	Oral (rabbit) LD50: 325 mg/kg ^[1]	Ey	e (rabb	oit): 0.05 mg/24h SEVE	RE	
sodium hydroxide		Ey	e (rabb	bit):1 mg/24h SEVERE		
				pit):1 mg/30s rinsed-SE	VERE	
		Sk	in (rabl	bit): 500 mg/24h SEVE	RE	
	ΤΟΧΙΟΙΤΥ				IRRIT	ATION
1,2-benzisothiazoline-3-one	Oral (rat) LD50: 670 mg/kg ^[2]					vailable
						IRRITATION
monoisobutanolamine		Dermal (rabbit) LD50: >2000 mg/kg ^[1]			Not Available	
	Oral (rat) LD50: 2900 mg/kg ^[2]					
	TOXICITY IRRITATION					
n but d weth consider	Dermal (rabbit) LD50: 11300 mg/kg ^[2] Skin (rabbit): 10000		Skin (rabbit): 10000 m	g/kg (open)		
n-butyl methacrylate	Inhalation (rat) LC50: 4910 ppm/4hr ^[2]					
	Oral (rat) LD50: 16000 mg/kg ^[2]					
	ΤΟΧΙCΙΤΥ				IR	RITATION
water	Oral (rat) LD50: >90000 mg/kg ^[2]			No	ot Available	
	TOVICITY					RRITATION
dipropylene glycol		TOXICITY				
mono-n-butyl ether - alpha isomer	dermal (rat) LD50: >2000 mg/kg ^[1]			lot Available		
	Oral (rat) LD50: 1501.74 mg/kg ^[2]					
	TOXICITY			IRRITATION		
diethylene glycol monomethyl ether	Dermal (rabbit) LD50: 2525 mg/kg ^[2]			Eye (rabbit): 500 m	ng moderate	
	Oral (rat) LD50: 4040 mg/kg ^[2]			Eye (rabbit): 500 m	ng/24h n	nild
	TOXICITY			IRRITATION		
diethylene glycol monobutyl	Dermal (rabbit) LD50: 2700 mg/kg ^[2]			Eye (rabbit): 20 mg/24	h mode	rate
ether	Oral (rat) LD50: 3306 mg/kg ^[1]			Eye (rabbit): 5 mg - SE	EVERE	
	TOVICITY					IDDITATION
propylene glycol dibenzoate	ΤΟΧΙΟΙΤΥ					IRRITATION
	I					

Continued...

	Dermal (rabbit) LD50: >2000 mg/kg ^[2]			Not Available
	Inhalation (rat) LC50: >200 mg/l/4h * ^[2]			
	Oral (rat) LD50: 3593 mg/kg ^[2]			
	тохісіту	IRR	RITATION	
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]		(human): 200 ppm irritant	
xylene	Inhalation (rat) LC50: 5000 ppm/4hr ^[2]	hr ^[2] Eye (rabbit): 5 mg/24h SEVERE		
	Oral (rat) LD50: 4300 mg/kg ^[2] Eye (rabbit): 87 mg mild			
			n (rabbit):500 mg/24h mod	erate
		1		
	ΤΟΧΙΟΙΤΥ	IRRITAT	ION	
ethylene glycol phenyl ether	dermal (rat) LD50: 14391 mg/kg ^[1]	Eye (rabl	bit): 250 ug/24h - SEVERI	Ξ
, , , , , , , , , , , , , , , , , , ,	Oral (rat) LD50: 1386 mg/kg ^[1]	Eye (rabl	bit): 6 mg - moderate	
		Skin (rab	obit): 500 mg/24h - mild	
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: ca.15432.6 mg/kg ^[1] Eye (rabbit): 500 mg - 5		SEVERE	
ethylbenzene	Inhalation (mouse) LC50: 35.5 mg/L/2hr ^[2] Skin (rabbit): 15 mg/2		Ih mild	
-	Inhalation (rat) LC50: 55 mg/L/2hr ^[2]			
	Oral (rat) LD50: 3500 mg/kg ^[2]			
	ΤΟΧΙCΙΤΥ		IRRITATION	
sodium nitrite	Inhalation (rat) LC50: 0.0055 mg/L/4hr ^[2]		Eye (rabbit): 500 mg/24h	nr - mild
source management	Oral (rat) LD50: 157.9 mg/kg ^[2]			
	TOXICITY			
C.I. Pigment Red 3	Oral (rat) LD50: >5000 mg/kg ^[2]		Eye (human): non irritant Skin (human): non irritan	
	ΤΟΧΙΟΙΤΥ		11	RRITATION
C.I. Pigment Violet 19	dermal (rat) LD50: >2000 mg/kg ^[1]		N	lot Available
	Oral (rat) LD50: >32200 mg/kg ^[2]			
Legend:	1. Value obtained from Europe ECHA Registered Substances	- Acute toxicity 2.* Value o	btained from manufacture	r's SDS Unless otherwise specified date

SODIUM HYDROXIDE	The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.
1,2-BENZISOTHIAZOLINE-3-ONE	Acute toxicity data show that 1,2-benzisothiazoline-3-one (BIT) is moderately toxic by the oral and dermal routes but that this chemical is a severe eye irritant. Irritation to the skin from acute data show only mild skin irritation , but repeated dermal application indicated a more significant skin irritation response. The neurotoxicity observed in the rat acute oral toxicity study (piloerection and upward curvature of the spine at 300 mg/kg and above; decreased activity, prostration, decreased abdominal muscle tone, reduced righting reflex, and decreased rate and depth of breathing at 900 mg/kg) and the acute dermal toxicity study (upward curvature of the spine was observed in increased incidence, but this was absent after day 5 post-dose at a dose of 2000 mg/kg) were felt to be at exposures in excess of those expected from the use pattern of this pesticide and that such effects would not be observed at estimated exposure doses.
MONOISOBUTANOLAMINE	TRIS AMINO and its surrogate chemicals have very little, if any, toxicity. They are mildly irritating to eyes at moderate concentrations, and do not cause allergic skin reactions. Ingestion of relatively high dosages can cause liver changes.
N-BUTYL METHACRYLATE	Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. For example Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53 Monoalkyl or monoarylesters of methacrylic acid should be classified as R36/37/38 For isobutyl methacrylates (i-BMA) and n-butyl methacrylates (n-BMA): These have low levels of toxicity orally, through skin contact or by inhalation. They irritate the skin and eyes. They have not been shown to cause genetic damage or cancer, and there is little concern about them causing developmental toxicity. Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing. This position has now been revised and acrylates and methacrylates are no longer <i>de facto</i> carcinogens.
WATER	No significant acute toxicological data identified in literature search.

	The azo linkage, a double bond between two nitrogen atoms, Bacterial mutagen Subchronic or Prechronic Exposure: Treat 0.6 or 0.3%) for 14 and 90 days resulted in haematological alt	Detailed analysis of molecular structure indicates that the azo colourant can split off cancer-causing arylamines. The azo linkage, a double bond between two nitrogen atoms, is considered the most unstable part of an azo dye. Bacterial mutagen Subchronic or Prechronic Exposure: Treatment of F344 rats and B6C3F1 mice with C.I. Pigment Red 3 in the diet (10, 5.0, 2.5, 1.25, 0.6 or 0.3%) for 14 and 90 days resulted in haematological alterations consistent with haemolytic anemia. Rats appeared to be more sensitive than mice to			
C.I. PIGMENT RE	 0.6 or 0.3%) for 14 and 90 days resulted in haematological alternative the haematological effects. Long-term dietary administration reand kidney and thyroid tumors in mice. An Ames bacterial test mammalian cells in culture. [Under the conditions of a 2 yr fee F344/N rats as exhibited by increased incidences of benign placed incidences of benign placed	0.6 or 0.3%) for 14 and 90 days resulted in haematological alterations consistent with haemolytic anemia. Rats appeared to be more sensitive than mice to the haematological effects. Long-term dietary administration resulted in the development of tumours of the liver, skin, adrenals and Zymbal gland in rats and kidney and thyroid tumors in mice. An Ames bacterial test has given evidence of weak mutagenicity, but no chromosome effects were seen in mammalian cells in culture. [Under the conditions of a 2 yr feed study, there was some evidence of carcinogenic activity of C.I. Pigment Red 3 in male F344/N rats as exhibited by increased incidences of benign pheochromocytomas of the adrenal gland. The marginal increase in the incidences of			
	*[BASF]; **[Hoechst Celanese] The gamma form was not cor	*[BASF]; **[Hoechst Celanese] The gamma form was not considered a contact sensitizer in guinea pig maximization tests [Burns, R. Springborn Institute			
	for Bioreseach 1983]				
SODIUM HYDROXID DIETHYLENE GLYC MONOBUTYL ETHER & XYLE & ETHYLENE GLYCOL PHEN ETHER & ETHYLBENZE	DL NE YL	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.			
SODIUM HYDROXID N-BUTYL METHACRYL/	as reactive airways dysfunction syndrome (RADS) which can	after exposure to the material ceases. This may be due to a non-allergenic condition know occur following exposure to high levels of highly irritating compound. Key criteria for the ry disease, in a non-atopic individual, with abrupt onset of persistent asthma-like sympto- it.			
1,2-BENZISOTHIAZOLINE-3-C & N-BUTYL METHACRYLAT PROPYLENE GLYC DIBENZOATE & C.I. PIGME RE	E & The following information refers to contact allergens as a grou Contact allergies quickly manifest themselves as contact ecze Involves a cell-mediated (T lymphocytes) immune reaction of the	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.			
DIETHYLENE GLYC MONOMETHYL ETHE DIETHYLENE GLYC MONOBUTYL ETH	DL This category includes diethylene glycol ethyl ether (DGEE), glycol hexyl ether (DGHE) and their acetates. Studies show the but do not cause damage to the reproductive, genetic and device.	at they can cause kidney and liver damage, skin and eye irritation as well as blood change			
XYLENE & ETHYLENE GLYC PHENYL ETHE	DL The material may cause skin irritation after prolonged or repea	ted exposure and may produce on contact skin redness, swelling, the production of			
	& The material may cause skin irritation after prolonged or repeatively a scaling and thickening of the skin	teo exposure and may produce on contact skin redness, swelling, the production of			
PHENYL ETHE	DL The material may cause skin irritation after prolonged or repeatives scaling and thickening of the skin	ted exposure and may produce on contact skin redness, swelling, the production of			
DIETHYLENE GLYC MONOMETHYL ETHE DIETHYLENE GLYC	DL This category includes diethylene glycol ethyl ether (DGEE), glycol hexyl ether (DGHE) and their acetates. Studies show the but do not cause damage to the reproductive, genetic and device.	This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates. Studies show that they can cause kidney and liver damage, skin and eye irritation as well as blood changes but do not cause damage to the reproductive, genetic and developmental abnormalities, sensitisation or respiratory systems. However, DGEE is reported			
& N-BUTYL METHACRYLAT PROPYLENE GLYC DIBENZOATE & C.I. PIGME	E & The following information refers to contact allergens as a grou Contact allergies quickly manifest themselves as contact ecze Involves a cell-mediated (T lymphocytes) immune reaction of the	ma, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema			
1,2-BENZISOTHIAZOLINE-3-C	diagnosis of RADS include the absence of preceding respirat within minutes to hours of a documented exposure to the irritar NE	ıt.			
	as reactive airways dysfunction syndrome (RADS) which can	occur following exposure to high levels of highly irritating compound. Key criteria for the			
MONOBUTYL ETHER & XYLE & ETHYLENE GLYCOL PHEN	NE The material may produce severe irritation to the eye causing conjunctivitis.				
SODIUM HYDROXID	tor Bioreseach 1983j	for Bioreseach 1983]			
C.I. PIGMENT VIOLET	*[BASF]; **[Hoechst Celanese] The gamma form was not cor	*[BASF]; **[Hoechst Celanese] The gamma form was not considered a contact sensitizer in guinea pig maximization tests [Burns, R. Springborn Institute			
C.I. PIGMENT RE	Bacterial mutagen Subchronic or Prechronic Exposure: Treatment of F344 rats and B6C3F1 mice with C.I. Pigment Red 3 in the diet (10, 5.0, 2.5, 1.25, 0.6 or 0.3%) for 14 and 90 days resulted in haematological alterations consistent with haemolytic anemia. Rats appeared to be more sensitive than mice to the haematological effects. Long-term dietary administration resulted in the development of tumours of the liver, skin, adrenals and Zymbal gland in rats and kidney and thyroid tumors in mice. An Ames bacterial test has given evidence of weak mutagenicity, but no chromosome effects were seen in mammalian cells in culture.[Under the conditions of a 2 yr feed study, there was some evidence of carcinogenic activity of C.I. Pigment Red 3 in male				
	Tumorigenic - Carcinogenic by RTECS criteria. Detailed analysis of molecular structure indicates that the azo				
SODIUM NITR	The material may be irritating to the eye, with prolonged conta conjunctivitis.	ct causing inflammation. Repeated or prolonged exposure to irritants may produce			
LIIILDLNLL	WARNING: This substance has been classified by the IARC	as Group 2B: Possibly Carcinogenic to Humans. ecific developmental abnormalities (musculoskeletal system) recorded.			
ETHYLBENZE	Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out through urine may irritate the skin, eyes and may cause hearing loss if exposed to high doses. 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.				
ETHYLENE GLYCOL PHEN ETH	YL The AAA fragrances demonstrate low acute and subchronic of	The aryl alkyl alcohol (AAA) fragrance ingredients are a diverse group of chemical structures with similar metabolic and toxicity profiles. The AAA fragrances demonstrate low acute and subchronic dermal and oral toxicity. At concentrations likely to be encountered by consumers, AAA fragrance ingredients are non-irritating to the skin. Bacterial cell mutagen			
XYLE					
PROPYLENE GLYC DIBENZO/	substances in food; their rapid absorption. metabolic detoxifica margin of safety between the conservative estimates of intake	tion, and excretion in humans and other animals, their low level of flavour use, the wide and the no-observed-adverse effect levels determined from chronic and subchronic studie his evidence of safety is supported by the fact that the intake of benzyl derivatives as natu			
DIETHYLENE GLYC MONOMETHYL ETH	ER	flammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. ally regarded as safe (GRAS) based in part on their self-limiting properties as flavouring			
DIPROPYLENE GLYC MONO-N-BUTYL ETHE ALPHA ISON	 R - Testing of a wide variety of propylene glycol ethers Testing of a less toxic than some ethers of the ethylene series. The comm such as adverse effects on reproductive organs, the developin commercial-grade propylene glycol ethers. 	acetate (DPMA); tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on reproductive organs, the developing embryo and fetus, blood (haemolytic effects), or thymus, are not seen with the			

S – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

oxiony					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium hydroxide	LC50	96	Fish	4.16158mg/L	3
sodium hydroxide	EC50	96	Algae or other aquatic plants	1034.10043mg/L	3
sodium hydroxide	EC50	384	Crustacea	27901.643mg/L	3
sodium hydroxide	NOEC	96	Fish	56mg/L	4
1,2-benzisothiazoline-3-one	LC50	96	Fish	1.6mg/L	4
1,2-benzisothiazoline-3-one	EC50	48	Crustacea	0.062mg/L	4
1,2-benzisothiazoline-3-one	EC50	48	Crustacea	4.4mg/L	4
monoisobutanolamine	LC50	96	Fish	=100mg/L	1
monoisobutanolamine	EC50	48	Crustacea	=193mg/L	1
nonoisobutanolamine	EC50	96	Algae or other aquatic plants	52.872mg/L	3
nonoisobutanolamine	EC50	24	Crustacea	=65mg/L	1
n-butyl methacrylate	LC50	96	Fish	5.478mg/L	3
n-butyl methacrylate	EC50	48	Crustacea	32mg/L	1
n-butyl methacrylate	EC50	96	Algae or other aquatic plants	57mg/L	1
n-butyl methacrylate	EC50	504	Crustacea	6.59mg/L	2
1-butyl methacrylate	NOEC	336	Fish	0.78mg/L	2
dipropylene glycol mono-n-butyl ether - alpha somer	LC50	96	Fish	139.478mg/L	3
dipropylene glycol mono-n-butyl ether - alpha isomer	EC50	96	Algae or other aquatic plants	556.359mg/L	3
dipropylene glycol mono-n-butyl ether - alpha somer	EC50	384	Crustacea	32.795mg/L	3
dipropylene glycol mono-n-butyl ether - alpha somer	NOEC	96	Fish	=180mg/L	1
diethylene glycol monomethyl ether	LC50	96	Fish	4276.836mg/L	3
diethylene glycol monomethyl ether	EC50	48	Crustacea	>500mg/L	1
diethylene glycol monomethyl ether	EC50	72	Algae or other aquatic plants	>500mg/L	1
diethylene glycol nonomethyl ether	EC0	48	Crustacea	=500mg/L	1
diethylene glycol monobutyl ether	LC50	96	Fish	488.016mg/L	3
diethylene glycol monobutyl ether	EC50	48	Crustacea	>100mg/L	1
diethylene glycol monobutyl ether	EC50	96	Algae or other aquatic plants	>100mg/L	1
diethylene glycol monobutyl ether	EC50	384	Crustacea	112.547mg/L	3
liethylene glycol monobutyl ether	NOEC	96	Algae or other aquatic plants	>=100mg/L	1
propylene glycol dibenzoate	LC50	96	Fish	4.927mg/L	3
propylene glycol dibenzoate	EC50	96	Algae or other aquatic plants	0.418mg/L	3
ylene	LC50	96	Fish	2.6mg/L	2
ylene	EC50	48	Crustacea	>3.4mg/L	2
ylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
ylene	EC50	24	Crustacea	0.711mg/L	4
ylene	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
thylene glycol phenyl ether	LC50	96	Fish	106.514mg/L	3
thylene glycol phenyl ether	EC50	48	Crustacea	>500mg/L	1
ethylene glycol phenyl ether	EC50	96	Algae or other aquatic plants	429.444mg/L	3
ethylene glycol phenyl ether	EC50	384	Crustacea	25.027mg/L	3
ethylene glycol phenyl ether	NOEC	504	Crustacea	9.43mg/L	2
ethylbenzene	LC50	96	Fish	0.0043mg/L	4
ethylbenzene	EC50	48	Crustacea	1.184mg/L	4

ethylbenzene	EC50	96	Algae or other aquatic plants	3.6mg/L	2
ethylbenzene	EC50	96	Crustacea	=0.49mg/L	1
ethylbenzene	NOEC	168	Crustacea	0.96mg/L	5
sodium nitrite	LC50	96	Fish	0.048mg/L	4
sodium nitrite	EC50	48	Crustacea	ca.12.5100mg/L	1
sodium nitrite	EC50	96	Algae or other aquatic plants	12.537mg/L	3
sodium nitrite	EC50	216	Crustacea	1.8mg/L	4
sodium nitrite	NOEC	2	Fish	0.02mg/L	4
C.I. Pigment Red 3	LC50	96	Fish	0.082mg/L	3
C.I. Pigment Red 3	EC50	96	Algae or other aquatic plants	0.018mg/L	3
C.I. Pigment Red 3	NOEC	72	Algae or other aquatic plants	>0.006mg/L	2
C.I. Pigment Violet 19	LC50	96	Fish	150.388mg/L	3
C.I. Pigment Violet 19	EC50	96	Algae or other aquatic plants	548.673mg/L	3
C.I. Pigment Violet 19	EC50	384	Crustacea	35.564mg/L	3
	Extracted from 1 IIIC	ID Taviaity Data 2 Europa ECHA	Previotored Substances Fostovicelegical In	formation Acuatia Taviaity 2 F	DIM/INI Suite 1/2 42

Leaend:

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

Harmful 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

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus. The order of most toxic to least in a study using grass shrimp and brown shrimp was dimethylnaphthalenes > methylnaphthalenes > naphthalenes. Anthrcene is a phototoxic PAH. UV light greatly increases the toxicity of anthracene to bluegill sunfish. Biological resources in strong sunlight are at more risk than those that are not. PAHs in general are more frequently associated with chronic risks.

For Organic Pigments:

Environmental Fate: Organic pigments are highly persistent in natural environments.

Atmospheric Fate: The chemical processes underlying breakdown of organic pigments through light or atmospheric conditions are difficult to clarify. Atmospheric contaminants, such as peroxides, which appear as the products of radiation, frequently start the degradation process.

Terrestrial Fate: Color pigments are protected from leaching into groundwater by the plastics, paints and inks that make up the final products incorporating color pigments. These substances will likely partition to soil and sediments. If these chemical are released equally into the three major environmental compartments, (air, water and soil), they will mainly partition into soil and sediments where they will persist. These substances have a high tendency to adsorb to soil, making them immobile. Evaporation from soil surfaces is not expected to occur. If released to soil, organic pigments are not expected to move out of the soil.

Aquatic Fate: With only a few recognized exceptions, organic and inorganic color pigments are extremely insoluble in water. Many pigments are visible in water at concentrations as low as 1 mg/L and pigmented waste waters are therefore usually highly colored and discharge in open waters presents an aesthetic problem. These substances are not expected to be readily or inherently biodegradable.

Ecotoxicity: Color pigments are not a threat to the environment when disposed of with solid waste in appropriate lined landfills. These compounds are non-toxic and are not expected to accumulate/concentrate in the food chain.

For Xylenes

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process. Soil - Xylenes are expected to have moderate mobility in soil evaporating rapidly from soil surfaces. The extent of the degradation is expected to depend on its concentration, residence time in the soil, the nature of the soil, and whether resident microbial populations have been acclimated. Xylene can remain below the soil surface for several days and may travel through the soil profile and enter groundwater. Soil and water microbes may transform it into other, less harmful compounds, although this happens slowly. It is not clear how long xylene remains trapped deep underground in soil or groundwater, but it may be months or years.

Atmospheric Fate: Xylene evaporates quickly into the air from surface soil and water and can remain in the air for several days until it is broken down by sunlight into other less harmful chemicals. In the ambient atmosphere, xylenes are expected to exist solely in the vapour phase. Xylenes are degraded in the atmosphere with an estimated atmospheric lifetime of about 0.5 to 2 days. Xylene may contribute to photochemical smog formation. p-Xylene has a moderately high photochemical reactivity under smog conditions, higher than the other xylene isomers. The photooxidation of p-xylene results in the production of carbon monoxide, formaldehyde, glyoxal, methylglyoxal, 3-methylbenzylnitrate, m-tolualdehyde, 4-nitro-3-xylene, 5-nitro-3-xylene, 2,6-dimethyl-p-benzoquinone, 2,4-dimethylphenol, 6-nitro-2,4-dimethylphenol, 2,6-dimethylphenol, and 4-nitro-2,6-dimethylphenol.

Aquatic Fate: p-xylene may adsorb to suspended solids and sediment in water and is expected to volatilise from water surfaces. Estimated volatilisation half-lives for a model river and model lake are 3 hours and 4 days, respectively. Measurements taken from goldfish, eels and clams indicate that bioconcentration in aquatic organisms is low. Photo-oxidation in the presence of humic acids may play an important role in the abiotic degradation of p-xylene. p-Xylene is biodegradable and has been observed to degrade in pond water however; it is unclear if it degrades in surface waters. p-Xylene has been observed to degrade in anaerobic and aerobic groundwater; however, it is known to persist for many years in groundwater, at least at sites where the concentration might have been quite high. Ecotoxicity: Xylenes are slightly toxic to fathead minnow, rainbow trout and bluegill and not acutely toxic to water fleas. For Photobacterium phosphoreum EC50 (24 h): 0.0084 mg/L, and Gammarus lacustris LC50 (48 h); 0.6 mg/L.

DO NOT discharge into sewer or wate

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
monoisobutanolamine	LOW	LOW
n-butyl methacrylate	LOW	LOW
water	LOW	LOW
dipropylene glycol mono-n-butyl ether - alpha isomer	нісн	HIGH
diethylene glycol monomethyl ether	LOW	LOW

diethylene glycol monobutyl ether	LOW	LOW
propylene glycol dibenzoate	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylene glycol phenyl ether	LOW	LOW
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
sodium nitrite	LOW	LOW
C.I. Pigment Red 3	HIGH	HIGH
C.I. Pigment Violet 19	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)
monoisobutanolamine	LOW (BCF = 330)
n-butyl methacrylate	LOW (BCF = 114)
water	LOW (LogKOW = -1.38)
dipropylene glycol mono-n-butyl ether - alpha isomer	LOW (LogKOW = 1.1274)
diethylene glycol monomethyl ether	LOW (BCF = 0.18)
diethylene glycol monobutyl ether	LOW (BCF = 0.46)
propylene glycol dibenzoate	LOW (LogKOW = 3.7326)
xylene	MEDIUM (BCF = 740)
ethylene glycol phenyl ether	LOW (LogKOW = 1.16)
ethylbenzene	LOW (BCF = 79.43)
sodium nitrite	LOW (LogKOW = 0.0564)
C.I. Pigment Red 3	LOW (BCF = 2.9)
C.I. Pigment Violet 19	LOW (LogKOW = 1.377)

Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)
monoisobutanolamine	MEDIUM (KOC = 2.196)
n-butyl methacrylate	LOW (KOC = 63.6)
water	LOW (KOC = 14.3)
dipropylene glycol mono-n-butyl ether - alpha isomer	LOW (KOC = 10)
diethylene glycol monomethyl ether	HIGH (KOC = 1)
diethylene glycol monobutyl ether	LOW (KOC = 10)
propylene glycol dibenzoate	LOW (KOC = 2573)
ethylene glycol phenyl ether	LOW (KOC = 12.12)
ethylbenzene	LOW (KOC = 517.8)
sodium nitrite	LOW (KOC = 23.74)
C.I. Pigment Red 3	LOW (KOC = 69830)
C.I. Pigment Violet 19	LOW (KOC = 3827)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse

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Everlife WB (HG)-Safety Red F52183

▶ Recycling
Disposal (if all else fails)
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be
possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type.
Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
 Recycle wherever possible or consult manufacturer for recycling options.
Consult State Land Waste Authority for disposal.
 Bury or incinerate residue at an approved site.
 Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required	
Marine Pollutant	NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

NON-HAZARDOUS INGREDIENT(NOT AVAIL.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

NON-HAZARDOUS INGREDIENT(NOT AVAIL.) IS FOUND ON THE FOLLOWING REGUL	ATORY LISTS
Not Applicable	
SODIUM HYDROXIDE(1310-73-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS	3
US - Alaska Limits for Air Contaminants	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminant
US - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Hawaii Air Contaminant Limits	Contaminants
US - Idaho - Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - Massachusetts - Right To Know Listed Chemicals	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US - Michigan Exposure Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Minnesota Permissible Exposure Limits (PELs)	US ACGIH Threshold Limit Values (TLV)
US - Oregon Permissible Exposure Limits (Z-1)	US CWA (Clean Water Act) - List of Hazardous Substances
US - Pennsylvania - Hazardous Substance List	US NIOSH Recommended Exposure Limits (RELs)
US - Rhode Island Hazardous Substance List	US OSHA Permissible Exposure Levels (PELs) - Table Z1
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
1.2-BENZISOTHIAZOLINE-3-ONE(2634-33-5) IS FOUND ON THE FOLLOWING REGULAT	TORY LISTS
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
MONOISOBUTANOLAMINE(124-68-5) IS FOUND ON THE FOLLOWING REGULATORY L	ISTS
US - Massachusetts - Right To Know Listed Chemicals	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Pennsylvania - Hazardous Substance List	
N-BUTYL METHACRYLATE(97-88-1) IS FOUND ON THE FOLLOWING REGULATORY LI	STS
US - Massachusetts - Right To Know Listed Chemicals	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Pennsylvania - Hazardous Substance List	
WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
DIPROPYLENE GLYCOL MONO-N-BUTYL ETHER - ALPHA ISOMER(29911-28-2) IS FOU	IND ON THE FOLLOWING REGULATORY LISTS
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US Clean Air Act - Hazardous Air Pollutants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US EPCRA Section 313 Chemical List
(CRELs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Pennsylvania - Hazardous Substance List	
DIETHYLENE GLYCOL MONOMETHYL ETHER(111-77-3) IS FOUND ON THE FOLLOWIN	IG REGULATORY LISTS
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US Clean Air Act - Hazardous Air Pollutants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US EPCRA Section 313 Chemical List
(CRELs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Massachusetts - Right To Know Listed Chemicals	

US - Massachusetts - Right To Know Listed Cher US - Pennsylvania - Hazardous Substance List

05 - Pennsylvania - Hazardous Substance List

DIETHYLENE GLYCOL MONOBUTYL ETHER(112-34-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US Clean Air Act - Hazardous Air Pollutants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US EPCRA Section 313 Chemical List (CRELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Pennsylvania - Hazardous Substance List US ACGIH Threshold Limit Values (TLV) PROPYLENE GLYCOL DIBENZOATE(19224-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants Monographs US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US - Alaska Limits for Air Contaminants Contaminants US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US - Washington Permissible exposure limits of air contaminants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US ACGIH Threshold Limit Values (TLV) (CRELs) US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California Permissible Exposure Limits for Chemical Contaminants US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - Hawaii Air Contaminant Limits US Clean Air Act - Hazardous Air Pollutants US - Idaho - Limits for Air Contaminants US CWA (Clean Water Act) - List of Hazardous Substances US - Massachusetts - Right To Know Listed Chemicals US EPA Carcinogens Listing US - Michigan Exposure Limits for Air Contaminants US EPCRA Section 313 Chemical List US - Minnesota Permissible Exposure Limits (PELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Oregon Permissible Exposure Limits (Z-1) US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants US - Pennsylvania - Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants ETHYLENE GLYCOL PHENYL ETHER(122-99-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US Clean Air Act - Hazardous Air Pollutants Monographs US EPCRA Section 313 Chemical List US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) US - Pennsylvania - Hazardous Substance List ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Monographs Contaminants US - Washington Permissible exposure limits of air contaminants US - Alaska Limits for Air Contaminants US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values Causing Reproductive Toxicity US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US ACGIH Threshold Limit Values (TLV) (CRELs) US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California Permissible Exposure Limits for Chemical Contaminants US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - California Proposition 65 - Carcinogens US Clean Air Act - Hazardous Air Pollutants US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US CWA (Clean Water Act) - List of Hazardous Substances US - Hawaii Air Contaminant Limits US CWA (Clean Water Act) - Priority Pollutants US - Idaho - Limits for Air Contaminants US CWA (Clean Water Act) - Toxic Pollutants US - Massachusetts - Right To Know Listed Chemicals US EPA Carcinogens Listing US - Michigan Exposure Limits for Air Contaminants US EPCRA Section 313 Chemical List US - Minnesota Permissible Exposure Limits (PELs) US NIOSH Recommended Exposure Limits (RELs) US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US OSHA Permissible Exposure Levels (PELs) - Table Z1 Carcinogens US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants SODIUM NITRITE(7632-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS US CWA (Clean Water Act) - List of Hazardous Substances International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs US EPCRA Section 313 Chemical List US - Massachusetts - Right To Know Listed Chemicals US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Pennsylvania - Hazardous Substance List C.I. PIGMENT RED 3(2425-85-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory Monographs C.I. PIGMENT VIOLET 19(1047-16-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	Yes

Fire hazard		No
Pressure hazard		No
Reactivity hazard		No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)		
Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
Sodium hydroxide	1000	454
Xylene (mixed)	100	45.4
Ethylbenzene	1000	454
Sodium nitrite	100	45.4

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 PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE Ethylbenzene Listed

National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	N (propylene glycol dibenzoate)	
Canada - NDSL	N (diethylene glycol monomethyl ether; monoisobutanolamine; 1,2-benzisothiazoline-3-one; dipropylene glycol mono-n-butyl ether - alpha isomer; xylene; diethylene glycol monobutyl ether; ethylbenzene; water; n-butyl methacrylate; ethylene glycol phenyl ether; sodium nitrite; C.I. Pigment Red 3; sodium hydroxide C.I. Pigment Violet 19)	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (dipropylene glycol mono-n-butyl ether - alpha isomer; water)	
Korea - KECI	Υ	
New Zealand - NZIoC	Υ	
Philippines - PICCS	Υ	
USA - TSCA	Y	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 OTHER INFORMATION

CONTACT POINT

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

Other information

Ingredients with multiple cas numbers

Name	CAS No
sodium hydroxide	1310-73-2, 12200-64-5
propylene glycol dibenzoate	19224-26-1, 105928-08-3
ethylene glycol phenyl ether	122-99-6, 37220-49-8, 134367-25-2, 18249-17-7, 200260-63-5, 79586-53-1, 9004-78-8, 56257-90-0, 1219804-65-5
C.I. Pigment Red 3	2425-85-6, 12238-48-1, 12240-01-6, 39310-30-0, 78690-69-4

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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_\circ

IDLH: Immediately Dangerous to Life or Health Concentrations

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

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