

ICP Construction

Version No: 2.3

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

Issue Date: 03/30/2017 Print Date: 03/30/2017 S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Everlife WB (HG)-Battleship Gray F52151
Synonyms	Not Available
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	ICP Construction
Address	150 Dascomb Road Massachusetts Andover United States
Telephone	978-623-9980
Fax	Not Available
Website	Not Available
Email	Not Available

Emergency phone number

0 11	
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	Reproductive Toxicity Category 2
Label elements	



Hazard statement(s)

Suspected of damaging fertility or the unborn child.

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

H361

P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.

P308+P313 IF exposed or concerned: Get medical advice/attention.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1317-70-0		titanium dioxide (anatase)
111-77-3	1-10	diethylene glycol monomethyl ether
7632-00-0	<1	sodium nitrite
1333-86-4	1-10	carbon black
51274-00-1	1-10	C.I. Pigment Yellow 42

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

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, 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
Methylhippu-ric acids in urine	1.5 gm/gm creatinine
	2 mg/min

Sampling Time End of shift Last 4 hrs of shift Comments

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- Jets of water.
- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit). ► Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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Special protective equipment and precautions for fire-fighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. 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. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. 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	 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. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. 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 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</p> <= 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. Safe handling Use in a well-ventilated area. ÷. Avoid contact with moisture. Avoid contact 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. ٠ Work clothes should be laundered separately. Launder contaminated clothing before re-use.

	► 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 are maintained.
	DO NOT allow clothing wet with material to stay in contact with skin
Other information	
Conditions for safe storage	ge, including any incompatibilities
	Polyethylene or polypropylene container.
Suitable container	Packing as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.
	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

Storage incompatibility 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 photochemical smogs.
- Oxidation of Alkylaromatics: T.S.S Rao and Shubhra Awasthi: E-Journal of Chemistry Vol 4, No. 1, pp 1-13 January 2007
- None known

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	titanium dioxide (anatase)	Titanium dioxide	15 mg/m3	Not Available	Not Available	Total dust
US ACGIH Threshold Limit Values (TLV)	titanium dioxide (anatase)	Titanium dioxide	10 mg/m3	Not Available	Not Available	TLV® Basis: LRT irr
US NIOSH Recommended Exposure Limits (RELs)	titanium dioxide (anatase)	Rutile, Titanium oxide, Titanium peroxide	Not Available	Not Available	Not Available	Ca See Appendix A
US OSHA Permissible Exposure Levels (PELs) - Table Z1	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	TLV® Basis: Bronchitis
US NIOSH Recommended Exposure Limits (RELs)	carbon black	Acetylene black, Channel black, Furnace black, Lamp black, Thermal black	3.5 mg/m3	Not Available	Not Available	Ca See Appendix A See Appendix C

EMERGENCY LIMITS Material name TEEL-1 TEEL-2 TEEL-3 Ingredient Titanium oxide; (Titanium dioxide) 330 mg/m3 2,000 mg/m3 titanium dioxide (anatase) 30 mg/m3 diethylene glycol monomethyl Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether) 220 ppm 3.4 ppm 37 ppm ethe sodium nitrite Sodium nitrite 6.4 ma/m3 71 mg/m3 240 ma/m3 carbon black Carbon black 9 mg/m3 99 mg/m3 590 mg/m3 Revised IDLH Original IDLH Ingredient N.E. mg/m3 / N.E. ppm 5,000 mg/m3 titanium dioxide (anatase) diethylene glycol monomethyl Not Available Not Available ether Not Available Not Available sodium nitrite N.E. mg/m3 / N.E. ppm 1,750 mg/m3 carbon black C.I. Pigment Yellow 42 Not Available Not Available

Exposure controls

Appropriate	engineering
	controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "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. If risk of overexposure exists, wear SAA 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 varving "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant: Air Speed: 0.25-0.5 m/s (50-100 solvent, vapours, degreasing etc., evaporating from tank (in still air) f/min) aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating 0.5-1 m/s (100-200 acid fumes, pickling (released at low velocity into zone of active generation) f/min.) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into 1-2.5 m/s (200-500 zone of rapid air motion) f/min) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid 2.5-10 m/s (500-2000 air motion). 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 extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. Personal protection Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use. should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of Eye and face protection chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eve redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] Skin protection See Hand protection below Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried 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 gloves include: 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 national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 Hands/feet protection 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 (breakthrough time greater than 60 minutes according to 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 into account when considering gloves for long-term use. Contaminated gloves should be replaced. For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or

	puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
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

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

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.

	Although the liquid is not thought to be an irritant (as classified b by tearing or conjunctival redness (as with windburn).			
Chronic	Ample evidence from experiments exists that there is a suspicion There has been concern that this material can cause cancer or m Women exposed to xylene in the first 3 months of pregnancy sho exposed to xylene has demonstrated lack of genetic toxicity.	nutations, but there is not enough	data to make an a	
Everlife WB	ΤΟΧΙΟΙΤΥ	IRRITATION		
(HG)-Battleship Gray F52151	Not Available	Not Available		
132131				
	ΤΟΧΙΟΙΤΥ			IRRITATION
titanium dioxide (anatase)	Inhalation (rat) LC50: >2.28 mg/l/4hr ^[1]			Not Available
	Inhalation (rat) LC50: >2.28 mg//4n ^[1]			
	Inhalation (rat) LC50: >6.82 mg/l/4hr ^[1]			
	Inhalation (rat) LC50: 3.43 mg//4hr ^[1]			
	Inhalation (rat) LC50: 5.09 mg//4hr ^[1]			
	Oral (rat) LD50: >2000 mg/kg ^[1]			
	ΤΟΧΙΟΙΤΥ	IRRITAT	ION	
diethylene glycol	Dermal (rabbit) LD50: 2525 mg/kg ^[2]		bit): 500 mg mode	rate
monomethyl ether	Oral (rat) LD50: 4040 mg/kg ^[2]	Eye (rab	bit): 500 mg/24h r	nild
			, 0	
	ΤΟΧΙΟΙΤΥ	IRRITA	TION	
sodium nitrite	Inhalation (rat) LC50: 0.0055 mg/L/4hr ^[2]		bbit): 500 mg/24h	ır - mild
	Oral (rat) LD50: 157.9 mg/kg ^[2]		, ,	
	ΤΟΧΙΟΙΤΥ			IRRITATION
carbon black	Dermal (rabbit) LD50: >3000 mg/kg ^[2]			Not Available
	Oral (rat) LD50: >8000 mg/kg ^[1]			
	ΤΟΧΙΟΙΤΥ		IRF	RITATION
C.I. Pigment Yellow 42			Not	Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - extracted from RTECS - Register of Toxic Effect of chemical Sui	-	from manufacture	's SDS. Unless otherwise specified dat
TITANIUM DIOXIDE (ANATASE)	Exposure to titanium dioxide is via inhalation, swallowing or skin on the lungs and immune system. Absorption by the stomach and in			e and lymph nodes causing dysfunction
		ttestines depends on the size of the mmation. Repeated or prolonged thylene glycol propyl ether (DGP an cause kidney and liver damage	he particle. I exposure to irrita E) diethylene glyc e, skin and eye irrit	nts may produce conjunctivitis. ol butyl ether (DGBE) and diethylene gl ation as well as blood changes but do no
(ANATASE) DIETHYLENE GLYCOL	the lungs and immune system. Absorption by the stomach and in The material may produce moderate eye irritation leading to infla This category includes diethylene glycol ethyl ether (DGEE), die hexyl ether (DGHE) and their acetates. Studies show that they ca cause damage to the reproductive, genetic and developmental a	testines depends on the size of the ammation. Repeated or prolonged thylene glycol propyl ether (DGP an cause kidney and liver damage bonormalities, sensitisation or resp	e particle. d exposure to irrita E) diethylene glyc e, skin and eye irrit piratory systems. I	nts may produce conjunctivitis. ol butyl ether (DGBE) and diethylene gl ation as well as blood changes but do n lowever, DGEE is reported to cause sp
(ANATASE) DIETHYLENE GLYCOL MONOMETHYL ETHER	the lungs and immune system. Absorption by the stomach and in The material may produce moderate eye irritation leading to infla This category includes diethylene glycol ethyl ether (DGEE), die hexyl ether (DGHE) and their acetates. Studies show that they ca cause damage to the reproductive, genetic and developmental a insufficiency. The material may be irritating to the eye, with prolonged contact	testines depends on the size of the ammation. Repeated or prolonged thylene glycol propyl ether (DGP an cause kidney and liver damage abnormalities, sensitisation or resp causing inflammation. Repeated	e particle. d exposure to irrita E) diethylene glyc e, skin and eye irrit piratory systems. I or prolonged exp	nts may produce conjunctivitis. ol butyl ether (DGBE) and diethylene gl ation as well as blood changes but do n lowever, DGEE is reported to cause sp
(ANATASE) DIETHYLENE GLYCOL MONOMETHYL ETHER SODIUM NITRITE	the lungs and immune system. Absorption by the stomach and in The material may produce moderate eye irritation leading to infla This category includes diethylene glycol ethyl ether (DGEE), die hexyl ether (DGHE) and their acetates. Studies show that they ca cause damage to the reproductive, genetic and developmental a insufficiency. The material may be irritating to the eye, with prolonged contact Tumorigenic - Carcinogenic by RTECS criteria. WARNING: This substance has been classified by the IARC as Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported Asthma-like symptoms may continue for months or even years af reactive airways dysfunction syndrome (RADS) which can occu of RADS include the absence of preceding respiratory disease, in to hours of a documented exposure to the irritant. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.	testines depends on the size of the immation. Repeated or prolonged thylene glycol propyl ether (DGP an cause kidney and liver damaged bonormalities, sensitisation or resp causing inflammation. Repeated is Group 2B: Possibly Carcinoger iter exposure to the material cease r following exposure to high level in a non-atopic individual, with ab	e particle. d exposure to irrita E) diethylene glyce s, skin and eye irrit jiratory systems. I or prolonged exp ic to Humans. es. This may be di s of highly irritatin	nts may produce conjunctivitis. ol butyl ether (DGBE) and diethylene gl ation as well as blood changes but do n lowever, DGEE is reported to cause sp posure to irritants may produce conjunction use to a non-allergenic condition known ar g compound. Key criteria for the diagno
(ANATASE) DIETHYLENE GLYCOL MONOMETHYL ETHER SODIUM NITRITE CARBON BLACK	the lungs and immune system. Absorption by the stomach and in The material may produce moderate eye irritation leading to infla This category includes diethylene glycol ethyl ether (DGEE), die hexyl ether (DGHE) and their acetates. Studies show that they ca cause damage to the reproductive, genetic and developmental a insufficiency. The material may be irritating to the eye, with prolonged contact Tumorigenic - Carcinogenic by RTECS criteria. WARNING: This substance has been classified by the IARC as Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported Asthma-like symptoms may continue for months or even years af reactive airways dysfunction syndrome (RADS) which can occu of RADS include the absence of preceding respiratory disease, in to hours of a documented exposure to the irritant. The substance is classified by IARC as Group 3:	testines depends on the size of the immation. Repeated or prolonged thylene glycol propyl ether (DGP an cause kidney and liver damage bonormalities, sensitisation or resp causing inflammation. Repeated is Group 2B: Possibly Carcinoger ter exposure to the material cease r following exposure to high level in a non-atopic individual, with ab nal testing.	e particle. d exposure to irrita E) diethylene glyce s, skin and eye irrit jiratory systems. I or prolonged exp ic to Humans. es. This may be di s of highly irritatin	nts may produce conjunctivitis. ol butyl ether (DGBE) and diethylene gł ation as well as blood changes but do no lowever, DGEE is reported to cause sp osure to irritants may produce conjunctiv use to a non-allergenic condition known ar g compound. Key criteria for the diagno
(ANATASE) DIETHYLENE GLYCOL MONOMETHYL ETHER SODIUM NITRITE CARBON BLACK C.I. PIGMENT YELLOW 42 CARBON BLACK & C.I.	the lungs and immune system. Absorption by the stomach and in The material may produce moderate eye irritation leading to infla This category includes diethylene glycol ethyl ether (DGEE), die hexyl ether (DGHE) and their acetates. Studies show that they ca cause damage to the reproductive, genetic and developmental a insufficiency. The material may be irritating to the eye, with prolonged contact Tumorigenic - Carcinogenic by RTECS criteria. WARNING: This substance has been classified by the IARC as Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported Asthma-like symptoms may continue for months or even years af reactive airways dysfunction syndrome (RADS) which can occu of RADS include the absence of preceding respiratory disease, in to hours of a documented exposure to the irritant. 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 anim	testines depends on the size of the immation. Repeated or prolonged thylene glycol propyl ether (DGP an cause kidney and liver damage bonormalities, sensitisation or resp causing inflammation. Repeated is Group 2B: Possibly Carcinoger ter exposure to the material cease r following exposure to high level in a non-atopic individual, with ab nal testing.	e particle. d exposure to irrita E) diethylene glyce s, skin and eye irrit jiratory systems. I or prolonged exp ic to Humans. es. This may be di s of highly irritatin	nts may produce conjunctivitis. ol butyl ether (DGBE) and diethylene gh ation as well as blood changes but do no lowever, DGEE is reported to cause spo posure to irritants may produce conjunctiv posure to irritants condition known as g compound. Key criteria for the diagno

Serious Eye Damage/Irritation	\otimes	STOT - Single Exposure	\otimes
Respiratory or Skin sensitisation	\otimes	STOT - Repeated Exposure	\otimes
Mutagenicity	\odot	Aspiration Hazard	\otimes
		Legend: 🗙	- Data available but does not fill the criteria for classification

Data available to make classification

🚫 – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

LC50				Source
LCOU	96	Fish	9.214mg/L	3
EC50	48	Crustacea	>10mg/L	2
EC50	72	Algae or other aquatic plants	5.83mg/L	4
EC20	72	Algae or other aquatic plants	1.81mg/L	4
NOEC	336	Fish	0.089mg/L	4
LC50	96	Fish	4276.836mg/L	3
EC50	48	Crustacea	>500mg/L	1
EC50	72	Algae or other aquatic plants	>500mg/L	1
EC0	48	Crustacea	=500mg/L	1
LC50	96	Fish	0.048mg/L	4
EC50	48	Crustacea	ca.12.5100mg/L	1
EC50	96	Algae or other aquatic plants	12.537mg/L	3
EC50	216	Crustacea	1.8mg/L	4
NOEC	2	Fish	0.02mg/L	4
LC50	96	Fish	=1000mg/L	1
EC50	24	Crustacea	>5600mg/L	1
NOEC	96	Fish	=1000mg/L	1
LC50	96	Fish	0.05mg/L	2
EC50	72	Algae or other aquatic plants	18mg/L	2
EC50	504	Crustacea	4.49mg/L	2
NOEC	504	Fish	0.52mg/L	2
	EC50 EC20 NOEC LC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50 NOEC LC50 EC50 NOEC LC50 EC50 NOEC EC50 EC50 ROEC EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC	EC50 72 EC20 72 NOEC 336 LC50 96 EC50 48 EC50 72 EC50 72 EC50 48 EC50 96 EC50 96 EC50 96 EC50 96 EC50 216 NOEC 2 LC50 96 EC50 216 NOEC 2 LC50 96 EC50 216 NOEC 2 LC50 96 EC50 72 EC50 72 EC50 96 EC50 504 NOEC 504	EC5072Algae or other aquatic plantsEC2072Algae or other aquatic plantsNOEC336FishLC5096FishEC5048CrustaceaEC5072Algae or other aquatic plantsEC5072Algae or other aquatic plantsEC5048CrustaceaEC5096FishEC5096FishEC5096FishEC5096Algae or other aquatic plantsEC5096Algae or other aquatic plantsEC5096Algae or other aquatic plantsEC50216CrustaceaNOEC2FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC5096FishLC50504CrustaceaNOEC504Fish	ECS072Algae or other aquatic plants5.83 mg/LEC2072Algae or other aquatic plants1.81 mg/LNOEC336Fish0.089 mg/LLC5096Fish4276.836 mg/LEC5048Crustacea>500 mg/LEC5072Algae or other aquatic plants>500 mg/LEC5072Algae or other aquatic plants>500 mg/LEC5048Crustacea=500 mg/LEC5048Crustacea=500 mg/LEC5048Crustaceaca.12.5100 mg/LEC5096Fish0.048 mg/LEC5096Algae or other aquatic plants12.537 mg/LEC50216Crustacea1.8 mg/LNOEC2Fish0.02 mg/LLC5096Fish=1000 mg/LLC5096Fish=1000 mg/LLC5096Fish=100 mg/LLC5096Fish0.05 mg/LEC5072Algae or other aquatic plants18 mg/LLC5096Fish100 mg/LEC5072Algae or other aquatic plants18 mg/LEC50504Crustacea18 mg/L

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

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 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-phenol, e-dimethylphenol, e-dimethylphenol, e-dimethylphenol, ad 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 waterways

Persistence and degradability

titanium dioxide (anatase)	HIGH	HIGH
diethylene glycol monomethyl ether	LOW	LOW
sodium nitrite	LOW	LOW

Bioaccumulative potential

2.0000000000000000000000000000000000000	
Ingredient	Bioaccumulation
titanium dioxide (anatase)	LOW (BCF = 10)
diethylene glycol monomethyl ether	LOW (BCF = 0.18)
sodium nitrite	LOW (LogKOW = 0.0564)

Mobility in soil

Ingredient	Mobility
titanium dioxide (anatase)	LOW (KOC = 23.74)
diethylene glycol monomethyl ether	HIGH (KOC = 1)
sodium nitrite	LOW (KOC = 23.74)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse 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. 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. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

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

TITANIUM DIOXIDE (ANATASE)(1317-70-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Continued...

Everlife WB (HG)-Battleship Gray F52151

	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar
JS - California Proposition 65 - Carcinogens	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
JS - Hawaii Air Contaminant Limits	Contaminants
JS - Idaho - Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
JS - Massachusetts - Right To Know Listed Chemicals	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
JS - Michigan Exposure Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)
JS - Minnesota Permissible Exposure Limits (PELs)	US ACGIH Threshold Limit Values (TLV) - Carcinogens
JS - Oregon Permissible Exposure Limits (Z-1)	US NIOSH Recommended Exposure Limits (RELs)
JS - Pennsylvania - Hazardous Substance List	US OSHA Permissible Exposure Levels (PELs) - Table Z1
JS - Rhode Island Hazardous Substance List	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Ri Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
DIETHYLENE GLYCOL MONOMETHYL ETHER(111-77-3) IS FOUND ON THE FOLLOWIN	
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US Clean Air Act - Hazardous Air Pollutants
JS - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)	US EPCRA Section 313 Chemical List
JS - Massachusetts - Right To Know Listed Chemicals	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
JS - Pennsylvania - Hazardous Substance List	
SODIUM NITRITE(7632-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
US - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US CWA (Clean Water Act) - List of Hazardous Substances	
CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS JS - Alaska Limits for Air Contaminants	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
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CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS JS - Alaska Limits for Air Contaminants JS - California Permissible Exposure Limits for Chemical Contaminants JS - California Proposition 65 - Carcinogens JS - Hawaii Air Contaminant Limits JS - Idaho - Limits for Air Contaminants JS - Massachusetts - Right To Know Listed Chemicals JS - Minesota Permissible Exposure Limits (PELs) JS - Nunesota Permissible Exposure Limits (PELs) JS - Oregon Permissible Exposure Limits (Z-1) JS - Oregon Permissible Exposure Limits (Z-1) JS - Pennsylvania - Hazardous Substance List	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants US - Washington Permissible exposure limits of air contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US ACGIH Threshold Limit Values (TLV) - Carcinogens US NIOSH Recommended Exposure Limits (RELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant R Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
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CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Alaska Limits for Air Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - California Proposition 65 - Carcinogens US - Idaho - Limits for Air Contaminants US - Idaho - Limits for Air Contaminants US - Massachusetts - Right To Know Listed Chemicals US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits (PELs) US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens US - Oregon Permissible Exposure Limits (Z-1) US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List C.I. PIGMENT YELLOW 42(51274-00-1) IS FOUND ON THE FOLLOWING REGULATORY	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants US - Washington Permissible exposure limits of air contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US ACGIH Threshold Limit Values (TLV) - Carcinogens US NIOSH Recommended Exposure Limits (RELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Ri Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Alaska Limits for Air Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - California Proposition 65 - Carcinogens US - Hawaii Air Contaminant Limits US - Idaho - Limits for Air Contaminants US - Massachusetts - Right To Know Listed Chemicals US - Massachusetts - Right To Know Listed Chemicals US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits (PELs) US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens US - Oregon Permissible Exposure Limits (Z-1) US - Pennsylvania - Hazardous Substance List CI. PIGMENT YELLOW 42(51274-00-1) IS FOUND ON THE FOLLOWING REGULATORY US - Alaska Limits for Air Contaminants US - Maska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminant US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants US - Washington Permissible exposure limits of air contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US ACGIH Threshold Limit Values (TLV) - Carcinogens US NIOSH Recommended Exposure Limits (RELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Ri Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US - Pennsylvania - Hazardous Substance List

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	No
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 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

Titanium dioxide (airborne, unbound particles of respirable size), Carbon black (airborne, unbound particles of respirable size) Listed

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (diethylene glycol monomethyl ether; sodium nitrite; carbon black; C.I. Pigment Yellow 42)
China - IECSC	Υ

Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
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
titanium dioxide (anatase)	1317-70-0, 13463-67-7
C.I. Pigment Yellow 42	51274-00-1, 12259-21-1, 105478-30-6, 53028-10-7, 1342-51-4, 12000-32-7, 50641-37-7, 51109-85-4, 99241-66-4, 131462-81-2, 147625-38-5, 12001-03-5, 185464-57-7, 182761-12-2, 94809-98-0, 934248-40-5

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。 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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