

Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211

ICP Construction

Version No: **7.9**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **06/20/2018**Print Date: **06/20/2018**S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211	
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

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

Registered company name	ICP Construction
Address	150 Dascomb Road Andover MA United States
Telephone	978-623-9980
Fax	Not Available
Website	http://www.icp-construction.com/
Email	Not Available

Emergency phone number

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

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture



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

Classification

Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects), Aspiration Hazard Category 1, Chronic Aquatic Hazard Category 3

Label elements

Hazard pictogram(s)





SIGNAL WORD DAN

DANGER

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) General

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

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P271	Use in a well-ventilated area.

Precautionary statement(s) Response

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P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.

Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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
64742-95-6.	23.88	aromatic 150
1330-20-7	8.11	xvlene *
111-76-2	10.6	ethylene glycol monobutyl ether *
1317-70-0	20-30	titanium dioxide (anatase)

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

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 furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. 	
Ingestion	 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. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. 	

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Comments

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

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.

Treat symptomatically.

Followed acute or short term repeated exposures to ethylene glycol monoalkyl ethers and their acetates:

- ▶ Hepatic metabolism produces ethylene glycol as a metabolite.
- Clinical presentation, following severe intoxication, resembles that of ethylene glycol exposures
- ▶ Monitoring the urinary excretion of the alkoxyacetic acid metabolites may be a useful indication of exposure.

[Ellenhorn and Barceloux: Medical Toxicology]

For acute or short term repeated exposures to ethylene glycol:

- Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Test and correct for metabolic acidosis and hypocalcaemia.
- Apply sustained diuresis when possible with hypertonic mannitol.
- ▶ Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution
- Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.

Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600

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):

DeterminantIndexSampling TimeMethylhippu-ric acids in urine1.5 gm/gm creatinineEnd of shift2 mg/minLast 4 hrs of shift

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- Foam
- ▶ Dry chemical powder.

Special hazards arising from the substrate or mixture

Fire Incompatibility

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

Special protective equipment and precautions for fire-fighters

Fire Fighting Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Combustible. Slight fire hazard when exposed to heat or flame. Combustion products include: carbon dioxide (CO2) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit corrosive 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

Environmental hazard - contain spillage.

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▶ Remove all ignition sources.
 ▶ Clean up all spills immediately.

 ■ Environmental hazard - contain spillage.
 Moderate hazard.
 ▶ Clear area of personnel and move upwind.

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

SECTION 7 HANDLING AND STORAGE

Safe handling

Precautions for safe handling

The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ Electrostatic discharge may be generated during pumping this may result in fire.
- Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- ► Avoid all personal contact, including inhalation.
- ► Wear protective clothing when risk of exposure occurs.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

Other information

▶ Store in original containers.

Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Suitable container

Storage incompatibility

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Ethylene glycol monobutyl ether (2-butoxyethanol) and its acetate:

- ▶ May form unstable peroxides in storage
- ▶ is incompatible with oxidisers, permanganates, peroxides, ammonium persulfate, bromine dioxide, nitrates, strong acids, sulfuric acid, nitric acid, perchloric acid

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.

Titanium dioxide

- $\normalfont{\blacktriangleright}$ reacts with strong acids, strong oxidisers
- reacts violently with aluminium, calcium, hydrazine, lithium (at around 200 deg C.), magnesium, potassium, sodium, zinc, especially at elevated temperatures these reactions involves reduction of the oxide and are accompanied by incandescence
- ▶ dust or powders can ignite and then explode in a carbon dioxide atmosphere
- ▶ WARNING: Avoid or control reaction with peroxides. All *transition metal* peroxides should be considered as potentially explosive.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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	xylene	Xylenes (o-, m-, p-isomers)	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol monobutyl ether	Butyl Cellosolve®, Butyl oxitol, Dowanol® EB, EGBE, Ektasolve EB®, Ethylene glycol monobutyl ether, Jeffersol EB	5 ppm / 24 mg/m3	Not Available	Not Available	[skin]
US ACGIH Threshold Limit Values (TLV)	ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm	Not Available	Not Available	TLV® Basis: Eye & URT irr; BEI
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ethylene glycol monobutyl ether	2-Butoxyethanol	50 ppm / 240 mg/m3	Not Available	Not Available	Not Available
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 ACGIH Threshold Limit Values (TLV)	titanium dioxide (anatase)	Titanium dioxide	10 mg/m3	Not Available	Not Available	TLV® Basis: LRT irr
US OSHA Permissible Exposure Levels (PELs) - Table Z1	titanium dioxide (anatase)	Titanium dioxide: Total dust	15 mg/m3	Not Available	Not Available	Not Available

| EMERGENCY LIMITS

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Ingredient	Material name T			TEEL-2	TEEL-3	
xylene	Xylenes Not Availa		lable	Not Available	Not Available	
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	60 ppm		120 ppm	700 ppm	
titanium dioxide (anatase)	Titanium oxide; (Titanium dioxide)	30 mg/m	3	330 mg/m3	2,000 mg/m3	
					·	
Ingredient	Original IDLH		Revised IDLH			
aromatic 150	Not Available	Not Available				
xylene	900 ppm	Not Available				
ethylene glycol monobutyl ether	700 ppm	Not Available				
titanium dioxide (anatase)	5000 mg/m3		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.
Personal protection	
Eye and face protection	▶ Safety glasses with side shields. ▶ Chemical goggles.
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 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.
Body protection	See Other protection below
Other protection	► Overalls. ► P.V.C.

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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Not Available		
7 ppsu. u.150	THE		
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.
Possibility of hazardous reactions	See section 7

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See section 5

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See section 7	
See section 7	

Conditions to avoid Incompatible materials Hazardous decomposition products

SECTION 11 TOXICOLOGIC	AL INFORMATION
Information on toxicological	effects
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Ethylene glycol monobutyl ether can destroy the blood cells with long term exposure. It also causes eye, nose and throat discomfort. 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) Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions. Dusts of titanium and titanium compounds are thought to exhibit little or no toxic effects. Severe acute exposure to ethylene glycol monobutyl ether, by ingestion, may cause kidney damage and blood in the urine, and is potentially fatal.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. 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. Ethylene glycol monobutyl ether penetrates the skin easily and will cause more harm on skin contact than through inhalation. Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but branched species are more likely to.
Еуе	Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion. Ethylene glycol monobutyl ether may cause pain, redness and damage to the eyes. There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.
Chronic	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Long term exposure to titanium and several of its compounds produces lung scarring and chronic bronchitis. Breathing is impaired and cardiac changes with right heart enlargements occur. 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. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

	chronically exposed to xylene has demonstrated lack of genetic toxicity. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.					
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Tile-Cote 2 Part Polyamide	TOXICITY					
Epoxy-Tintable White - F01211	Not Available					
	TOXICITY		IRRITATION			
	Dermal (rabbit) LD50: >1900 mg/kg ^[1]		Not Available			
	dermal (rat) LD50: >2000 mg/kg ^[1]					
aromatic 150	Inhalation (rat) LC50: >0.59 mg/l/4H ^[2]					
	Inhalation (rat) LC50: >7331.62506 mg/l/8h* ^[2]					
	Oral (rat) LD50: >2000 mg/kg ^[1]					
	Oral (rat) LD50: >4500 mg/kg ^[1]					
	TOXICITY	IRRITATION				
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye (human): 200 ppm irritant				
xylene	Inhalation (rat) LC50: 4994.295 mg/l/4h ^[2]	Eye (rabbit): 5 mg/24h SEVER	E			
	Oral (rat) LD50: 4300 mg/kg ^[2]	Eye (rabbit): 87 mg mild	Eye (rabbit): 87 mg mild			

Skin (rabbit):500 mg/24h moderate

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demail (mi) LDSD -2000 mg/kg ¹¹		TOXICITY	IRRITATION					
titanium dioxide (anatase) TOXICITY INRITATION TOXICITY INRITATION INRITATION Included (anatase) TOXICITY INRITATION Included (anatase) Included (anatase) TOXICITY INRITATION		dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg SE\	/ERE				
titanium dioxide (anatase) TOXICITY Intribution (rat) LD50: 228 mg/st ri ¹¹ Oral (rat) D50: 2200 mg/st ri ¹¹ Not Available Legend: Legend: Lege	ethylene glycol monobutyl ether		Eye (rabbit): 100 mg/24h	-moderate				
titanium dioxide (anatase) Inhalation (rat) LCS0: >2.28 mg/H ft ⁻¹¹ Coal (rat) LDS0: >2000 mg/hg ⁻¹¹ Legend: 1. Value obtained from Europe ECHA Registered Substances - Acuse toxicity 2.* Value obtained from manufacturer's SOS. Unless otherwise specified dates extracted from RTECS - Register of Toxic Effect of chemical Substances Title-Cote 2 Part Polyamide Epoxy-Triatable White - F01211 AROMATIC 150 AROMATIC 150 TYLENE TYLENE TYLENE THYLENE GLYCOL MONDBUTYL ETHER TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 As AROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 As AROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 AROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 AROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 As AROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A ROMATIC 150 TITLE-Cote 2 Part Polyamide Epoxy-Triatable White - P01211 A TITLE-Cote 2 Part Polya			Skin (rabbit): 500 mg, open; mild					
Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute leading 2.* Value obtained from menufacturer's SDS. Unless otherwise specified data entracted from RTECS - Register of Trade Effect of Chemical Substances Tile-Cote 2 Part Polyamide Epoxy-Trintable White - F01211 AROMATIC 150 For petroleum: This product contains berzere, which can cause acute myeloid loukarrias, and n-hexane, which can be metabolized to compounds which are tools to the nervous system. This product contains between, which can cause acute myeloid loukarrias, and n-hexane, which can be metabolized to compounds which are tools to the nervous system. This product contains between, and animal studies suggest high concentrations of bolume lead to hearing loss. XYLENE ETHYLENE GLYCOL MONOBUTYL ETHER ETHYLENE GLYCOL MONOBUTYL ETHER Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211 AND ADAMOMATIC 50 ASAMOMATIC 50 Tile-Cote 2 Part Polyamide Epoxy-Trintable White - P01211		TOXICITY		IRRITATION				
Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 AROMATIC 150 For petroleum: This product contains between, which can cause acuse myeloid leukaemia, and nimel studies suggest high concentrations of toleume lead to bearing loss. YLENE XYLENE XYLENE Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 AROMATIC 150 For petroleum: This product contains between, which can cause acuse myeloid leukaemia, and nimel studies suggest high concentrations of toleume lead to bearing loss. Not classification as to least set of the carbon chain lengths. Which can be metabolized to compounds which are toxis to the nervous system. This product contains between, and animal studies suggest high concentrations of toleume lead to hearing loss. Not classification as to least set of the carbon chain in the success of the carbon chain in the success of the carbon chain in the success of the nervous system. This product contains between, and animal studies suggest high concentrations of toleume lead to hearing loss. Not classificate as to least set of the carbon chain in the success of the carbon of the remains labelines. In the success of the carbon chain in the success of the carbon chain in the success of the substance of the carbon chain in the success of the substance of the carbon chain in the success of the substance of the carbon chain in the success of the substance of the carbon chain in the success of the substance of the carbon chain in the success of the substance of the carbon chain in the success of the substance	titanium dioxide (anatase)							
Inter-Crowd Part Proyerhold Proyer Triatable White - F0121 September 1 (a). paparaform that inside or cyclo parafolis. AROMATIC 150 AROMATIC 150 For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains tolurene, and animal studies suggest high concentrations of tolurene lead to hearing lass. The substance is classified by UARC as Group 2 Nor classifiable as to its carcinogenicity to humans. ETHYLENE GLYCOL MONOBUTYL ETHER ETHYLENE GLYCOL MONOBUTYL ETHER For ethylene glycol monosityl ethers and their acetates (EGMAEs): Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates. EGMAEs are substantes for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). EPyline glycol squicidly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the animals exposed to high concentrations of this substance by all routes. "ASCC (NZ) SDS Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & ETHYLENE GLYCOL MONOBUTYL ETHER Till-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITHYLENE GLYCOL MONOBUTYL ETHER TIL-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITHYLENE GLYCOL MONOBUTYL ETHER Till-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITHYLENE GLYCOL MONOBUTYL ETHER The material may cause skin irritation after prolonged or repeated exposure to high levels of highly irritating compound. Astronamore and the embryo. Reproductive effects were thought to be less than that of other monosityl ethers of ethylene glycol MONOBUTYL ETHER The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of v	Legend:		obtained from manufacto	urer's SDS. Unless otherwise specified				
Inter-Crowd Part Proyerhold Proyer Triatable White - F0121 September 1 (a). paparaform that inside or cyclo parafolis. AROMATIC 150 AROMATIC 150 For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains tolurene, and animal studies suggest high concentrations of tolurene lead to hearing lass. The substance is classified by UARC as Group 2 Nor classifiable as to its carcinogenicity to humans. ETHYLENE GLYCOL MONOBUTYL ETHER ETHYLENE GLYCOL MONOBUTYL ETHER For ethylene glycol monosityl ethers and their acetates (EGMAEs): Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates. EGMAEs are substantes for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). EPyline glycol squicidly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the animals exposed to high concentrations of this substance by all routes. "ASCC (NZ) SDS Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & ETHYLENE GLYCOL MONOBUTYL ETHER Till-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITHYLENE GLYCOL MONOBUTYL ETHER TIL-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITHYLENE GLYCOL MONOBUTYL ETHER Till-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITHYLENE GLYCOL MONOBUTYL ETHER The material may cause skin irritation after prolonged or repeated exposure to high levels of highly irritating compound. Astronamore and the embryo. Reproductive effects were thought to be less than that of other monosityl ethers of ethylene glycol MONOBUTYL ETHER The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of v								
The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity in burnans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reproductive effector in rate Reproductive effector in rate Annon BUTYLETHER ETHYLENE GLYCOL MONOBUTYLETHER ETHYLENE GLYCOL MONOBUTYLETHER Tile-Cote 2 Part Polyamide Epoxy-Tintable White - P01211 & ETHYLENE GLYCOL MONOBUTYLETHER Tile-Cote 2 Part Polyamide Epoxy-Tintable White - P01211 & ETHYLENE GLYCOL MONOBUTYLETHER Tile-Cote 2 Part Polyamide Epoxy-Tintable White - P01211 & TITANIUM DIOXIDE (ANATASE) Tile-Cote 2 Part Polyamide Epoxy-Tintable White - P01211 & TITANIUM DIOXIDE (ANATASE) Tile-Cote 2 Part Polyamide Epoxy-Tintable White - P01211 **TITANIUM DIOXIDE (ANATASE) The substance was a substance to a control of the polyamide polyamide Epoxy-Tintable White - P01211 **TITANIUM DIOXIDE (ANATASE) The material may produce severe initiation to the eye causing pronounced inflammation. Repeated or prolonged exposure to itimize and the material ends. It may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and thickening of the skin. **The material may produce severe initiation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritanism and produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. **TIRE-Cote 2 Part Polyamide Epoxy-Tintable White - P01211 **TIRE-Cote 2 Part Polyamide Epoxy-Tintable	_	inversely proportional to the carbon chain length, with little absorption above C30. With						
NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reproductive effector in rats For ethylene glycol monoalkyl ethers and their acetates (EGMAEs): Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates. EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolities). Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to high concentrations of this substance by all routes. "ASCC (NZ) SDS Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & A ROMATIC 150 Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & Epoxy and the substance of th	AROMATIC 150			·				
Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGRE) and ethylene glycol hexyl ether (EGHE) and their acatales. EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metiacolites). Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to high concentrations of this substance by all routes. "ASCC (NZ) SDS Title-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & ASTMAIN EPOXY (STATE) (ST	XYLENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.						
Astman-like symptoms may continue for months or even years are exposure to the material ends. I his may be due to a non-altergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Title-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & ETHER Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITLABLE MINIOR DIOXIDE (ANATASE) TILE-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITLABLE White - F012		Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene and their acetates. EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes t transient metabolites). Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tracairways; absorption through skin is apparently slow. NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to	he conversion of their ten	minal alcohols to aldehydes (which are				
Animal testing showed that exposure to ethylene glycol monobutyl ether resulted in toxicity to both the mother and the embryo. Reproductive effects were thought to be less than that of other monoalkyl ethers of ethylene glycol. Title-Cote 2 Part Polyamide Epoxy-Tintable White - F01211 & TITLANIUM DIOXIDE (ANATASE) The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Acute Toxicity Skin Irritation/Corrosion Respiratory or Skin sensitisation STOT - Repeated Exposure	Epoxy-Tintable White - F01211	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as						
Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Acute Toxicity Skin Irritation/Corrosion Respiratory or Skin sensitisation Respiratory or Skin sensitisation STOT - Repeated Exposure	Epoxy-Tintable White - F01211 & ETHYLENE GLYCOL		ity to both the mother and	the embryo. Reproductive effects were				
XYLENE & ETHYLENE GLYCOL MONOBUTYL ETHER conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation STOT - Single Exposure STOT - Repeated Exposure	Epoxy-Tintable White - F01211 & TITANIUM DIOXIDE							
Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation STOT - Repeated Exposure		conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles,						
Serious Eye Damage/Irritation Respiratory or Skin sensitisation STOT - Single Exposure STOT - Repeated Exposure	Acute Toxicity	○ Carcino	genicity					
Respiratory or Skin sensitisation STOT - Repeated Exposure	Skin Irritation/Corrosion	✓ Reprod	uctivity					
sensitisation S101 - Repeated Exposure	Serious Eye Damage/Irritation	✓ STOT - Single Ex	cposure 💙					
Mutagenicity Aspiration Hazard ✓		STOT - Repeated Ex	posure 🛇					
	Mutagenicity	○ Aspiration	Hazard 🗸					

Legend:

igstyle igwedge - 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

Tile-Cote 2 Part Polyamide	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOUF	
Epoxy-Tintable White - F01211	/-Tintable White - F01211 Not Available Not Available		Not Available Not Availa		Not Availab	ole Not Availa		vailable
	ENDPOINT	TEST DURATION (HR)	SPECI	ES		VALUE		SOURCE
aromatic 150	LC50	96	Fish			0.58mg/L		2
aromatic 150	EC50	48	Crusta	icea		0.76mg/L		2
	EC50	72	Algae	or other aquatic plants		<1mg/L		1

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Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211

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	NOEC	72	72		ner aquatic plants		0.3mg/L	2
	EC50	48		Crustacea	Crustacea		=6.14mg/L	1
	EC50	72	72		Algae or other aquatic plants		3.29mg/L	1
	EC10	72		Algae or oth	ner aquatic plants		1.13mg/L	1
	NOEC	72		Algae or oth	ner aquatic plants		=1mg/L	1
	ENDPOINT	TES	T DURATION (HR)	SPECIES			VALUE	SOURCE
	LC50	96		Fish			2.6mg/L	2
xylene	EC50	48		Crustacea			>3.4mg/L	2
	EC50	72		Algae or ot	her aquatic plants		4.6mg/L	2
	NOEC	73		Algae or ot	Algae or other aquatic plants		0.44mg/L	2
	ENDPOINT		TEST DURATION (HR)		SPECIES	VALUE		SOURCE
	ENDPOINT LC50		TEST DURATION (HR) 96		SPECIES Fish	VALUE 1250mg	/L	SOURCE 4
hylene glycol monobutyl ether			. ,					
hylene glycol monobutyl ether	LC50		96		Fish	1250mg	g/L	4
hylene glycol monobutyl ether	LC50 EC50		96 48		Fish Crustacea	1250mg/ >1000m	g/L	4
hylene glycol monobutyl ether	LC50 EC50		96 48	SPECIES	Fish Crustacea	1250mg/ >1000m	g/L	4 4 4
hylene glycol monobutyl ether	LC50 EC50 NOEC		96 48 96	SPECIES Fish	Fish Crustacea	1250mg/ >1000m	g/L /L	4 4 4
	LC50 EC50 NOEC	TES	96 48 96		Fish Crustacea	1250mg/ >1000m	g/L /L VALUE	4 4 4 SOURCE
hylene glycol monobutyl ether	LC50 EC50 NOEC ENDPOINT LC50	TES 96	96 48 96	Fish Crustacea	Fish Crustacea	1250mg/ >1000m	g/L /L VALUE 155mg/L	4 4 4 4 SOURCE 2
hylene glycol monobutyl ether titanium dioxide (anatase)	LC50 EC50 NOEC ENDPOINT LC50 EC50	TES 96 48	96 48 96	Fish Crustacea Algae or oth	Fish Crustacea Crustacea	1250mg/ >1000m	yALUE 155mg/L >10mg/L	4 4 4 4 SOURCE 2 2

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

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

oxygen transfer between the air and the water

Oils of any kind can cause

- rowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- lethal effects on fish by coating gill surfaces, preventing respiration
- ▶ asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation.

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. For Ethelene Glycol Monoalkyl Ethers and their Acetates:

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

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

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process.

Environmental Fate: Several glycol ethers have been shown to biodegrade however; biodegradation slows as molecular weight increases. No glycol ethers that have been tested demonstrate marked resistance to biodegradative processes.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
titanium dioxide (anatase)	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
aromatic 150	LOW (BCF = 159)
xylene	MEDIUM (BCF = 740)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
titanium dioxide (anatase)	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility

Tile-Cote 2 Part Polyamide Epoxy-Tintable White - F01211

ethylene glycol monobutyl ether HIGH (KOC = 1)
titanium dioxide (anatase) LOW (KOC = 23.74)

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.

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

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.

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

AROMATIC 150(64742-95-6.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances 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 TSCA Chemical Substance Inventory - Interim List of Active Substances US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2) 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 - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
(CRELs)	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Idaho - Limits for Air Contaminants	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US - Massachusetts - Right To Know Listed Chemicals	US Clean Air Act - Hazardous Air Pollutants
US - Michigan Exposure Limits for Air Contaminants	US EPA Carcinogens Listing
US - Minnesota Permissible Exposure Limits (PELs)	US EPCRA Section 313 Chemical List
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US NIOSH Recommended Exposure Limits (RELs)
Carcinogens	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Pennsylvania - Hazardous Substance List	US TSCA Chemical Substance Inventory - Interim List of Active Substances
US - Rhode Island Hazardous Substance List	,

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

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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 Proposition 65 - Carcinogens	US - Washington Permissible exposure limits of air contaminants
US - Hawaii Air Contaminant Limits	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive)
US - Minnesota Permissible Exposure Limits (PELs)	Rule
US - Oregon Permissible Exposure Limits (Z-1)	US NIOSH Recommended Exposure Limits (RELs)
US - Pennsylvania - Hazardous Substance List	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Rhode Island Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US TSCA Chemical Substance Inventory - Interim List of Active Substances
	US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification
	Requirements

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	Yes
Germ cell mutagenicity	No
Simple Asphyxiant	No

$\|$ US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Xylene (mixed)	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

\parallel US - CALIFORNIA PROPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

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

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (xylene; aromatic 150; ethylene glycol monobutyl ether)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ

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Print Date: 06/20/2018

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

Revision Date	06/20/2018
Initial Date	06/21/2018

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
aromatic 150	64742-95-6., 64742-94-5
titanium dioxide (anatase)	1317-70-0, 13463-67-7

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

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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