

ICP Construction

Version No: 3.5

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

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Trouble Shooter AcrWhite 45100	
Synonyms	Not Available	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses Primer for Exterior wood clapboards, siding, shingles, trim, shakes and hardboard

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

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 Serious Eye Damage Category 1, Skin Sensitizer Category 1, Carcinogenicity Category 1A, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2, Specific target organ toxicity - repeated exposure Category 1 Label elements CHS lobel elements



SIGNAL WORD DANGER

Hazard statement(s)

H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.
H372	Causes damage to organs through prolonged or repeated exposure.

Hazard(s) not otherwise specified

Not Applicable

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Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P310	Immediately call a POISON CENTER or doctor/physician.	

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
13463-67-7	10-30	titanium dioxide
1317-65-3	10-30	calcium carbonate
57-55-6	3-7	propylene glycol
1897-45-6	0.1-1	chlorothalonil
26172-55-4	0.1-1	5-chloro-2-methyl-4-isothiazolin-3-one
1314-13-2	3-10	zinc oxide

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
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 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	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

Establish a patent airway with suction where necessary.

- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.

DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

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

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

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

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

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.

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. 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	 Environmental hazard - contain spillage. Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite. The absorbent (and surface soil to a depth sufficient to remove all of the biocide) should be shovelled into a drum and treated with an 11% solution of sodium metabisulfite (Na2S2O5) or sodium bisulfite (NaHSO3), or 12% sodium sulfite (Na2SO3) and 8% hydrochloric acid (HCI). Glutathione has also been used to inactivate the isothiazolinones. Use 20 volumes of decontaminating solution for each volume of biocide, and let containers stand for at least 30 minutes to deactivate microbicide before disposal. If contamination of drains or waterways occurs, advise emergency services. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. 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.
	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
	► Store in original containers.
	Keep containers securely sealed.
	Stop contained sociality control of the second
Other information	
	 Store away from incompatible materials and foodstuff containers.
	 Protect containers against physical damage and check regularly for leaks.
	 Observe manufacturer's storage and handling recommendations contained within this SDS.
Conditions for safe stora	ge, including any incompatibilities Lined metal can, lined metal pail/ can.
	► Plastic pail.
	► Polyliner drum.
	 Packing as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.
	For low viscosity materials
	Drums and jerricans must be of the non-removable head type.
	Where a can is to be used as an inner package, the can must have a screwed enclosure.
	For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):
	Removable head packaging;
	► Cans with friction closures and
Suitable container	► low pressure tubes and cartridges
	may be used.
	Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer
	packages *.
	- In addition, where incorrections are also and eastern liquide of applying group Land II there must be sufficient incort shorthert to
	In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *.
	 * unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
	uness the outer packaging is a close nump moduleu plastic box and the substances are not incompatible with the plastic.
	All inner and sole packagings for substances that have been assigned to Packaging Groups I or II on the basis of inhalation toxicity criteria, must be
	hermetically sealed.
	Calcium carbonate:
	▶ is incompatible with acids, ammonium salts, fluorine, germanium, lead diacetate, magnesium, mercurous chloride, silicon, silver nitrate, titanium.
	Contact with acid generates carbon dioxide gas, which may pressurise and then rupture closed containers
	► Glycols and their ethers undergo violent decomposition in contact with 70% perchloric acid. This seems likely to involve formation of the glycol perchlorate
	esters (after scission of ethers) which are explosive, those of ethylene glycol and 3-chloro-1,2-propanediol being more powerful than glyceryl nitrate, and the
	eases and accessible that it explodes on addition of water.
	Titanium dioxide
	reacts with strong acids, strong oxidisers
	reacts violently with aluminium, calcium, hydrazine, lithium (at around 200 deg C.), magnesium, potassium, sodium, zinc, especially at elevated temperature
	- these reactions involves reduction of the oxide and are accompanied by incandescence
Storage incompatibility	 dust or powders can ignite and then explode in a carbon dioxide atmosphere
c , , , , , , , , , , , , , , , , , , ,	Zinc oxide:
	Solvey absorbs carbon dioxide from the air.
	may react, explosively with magnesium and chlorinated rubber when heated
	 is incompatible with linseed oil (may cause ignition)
	WARNING: Avoid or control reaction with peroxides. All transition metal peroxides should be considered as potentially explosive. For example transition metal
	complexes of alkyl hydroperoxides may decompose explosively.
	The pi-complexes formed between chromium(0), vanadium(0) and other transition metals (haloarene-metal complexes) and mono-or poly-fluorobenzene
	show extreme sensitivity to heat and are explosive.
	Avoid reaction with borohydrides or cyanoborohydrides
	 Avoid strong sold, sold ablatidos sold aplatidas and ablatifications

Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

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	Titanium dioxide	15 mg/m3	Not Available	Not Available	Total dust
US ACGIH Threshold Limit Values (TLV)	titanium dioxide	Titanium dioxide	10 mg/m3	Not Available	Not Available	TLV® Basis: LRT irr
US NIOSH Recommended Exposure Limits (RELs)	titanium dioxide	Rutile, Titanium oxide, Titanium peroxide	Not Available	Not Available	Not Available	Ca See Appendix A
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Calcium carbonate / Calcium carbonate - Respirable fraction	15 mg/m3 / 5 mg/m3	Not Available	Not Available	Total dust

la anno all a mé	Metavial wave			TEEL		
EMERGENCY LIMITS						
US NIOSH Recommended Exposure Limits (RELs)	zinc oxide	Zinc peroxide	Dust: 5 ,Fume: 5 mg/m3	Fume: 10 mg/m3	Dust: 15 mg/m3	Not Available
US ACGIH Threshold Limit Values (TLV)	zinc oxide	Zinc oxide	2 mg/m3	10 mg/m3	Not Available	TLV® Basis: Metal fume fever
US OSHA Permissible Exposure Levels (PELs) - Table Z3	zinc oxide	Inert or Nuisance Dust	5 mg/m3 / 15 mg/m3 / 15 mppcf / 50 mppcf	Not Available	Not Available	Respirable fraction;All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. / Total dust;All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.
US OSHA Permissible Exposure Levels (PELs) - Table Z1	zinc oxide	Zinc oxide fume / Zinc oxide / Zinc oxide - Respirable fraction	5 mg/m3 / 15 mg/m3	Not Available	Not Available	Total dust
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium salt of carbonic acid [Note: Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite and oyster shells.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium carbonate, Natural calcium carbonate [Note: Calcite & aragonite are commercially important natural calcium carbonates.] / Calcium carbonate, Natural calcium carbonate [Note: Marble is a metamorphic form of calcium carbonate.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
titanium dioxide	Titanium oxide; (Titanium dioxide)	30 mg/m3	330 mg/m3	2,000 mg/m3
calcium carbonate	Limestone; (Calcium carbonate; Dolomite)	45 mg/m3	500 mg/m3	3,000 mg/m3
calcium carbonate	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)	30 mg/m3	1,300 mg/m3	7,900 mg/m3
chlorothalonil	Chlorothalonil; (Tetrachloroisophthalonitrile)	0.13 mg/m3	1.4 mg/m3	8.6 mg/m3
5-chloro-2-methyl- 4-isothiazolin-3-one	Chloro-2-methyl-4-isothiazolin-3-one, 5-	0.6 mg/m3	6.6 mg/m3	40 mg/m3
zinc oxide	Zinc oxide	10 mg/m3	15 mg/m3	2,500 mg/m3
Ingredient	Original IDLH		Revised IDLH	
titanium dioxide	N.E. mg/m3 / N.E. ppm		5,000 mg/m3	
calcium carbonate	Not Available		Not Available	
propylene glycol	Not Available		Not Available	
chlorothalonil	Not Available	Not Available		
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available		Not Available	
zinc oxide	2,500 mg/m3		500 mg/m3	

Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering of 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 strr "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilat the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain ade	ategically "adds" and ion system must match
Appropriate engineering controls	Supplied-air type respirator may be required in special circumstances. Correct fit is essential to obtain ace An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "esc turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.	
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	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial ve air motion).	elocity into zone of very high rapid 2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
Personal protection	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple ext of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction fan, for example, should be solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerati apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when	a should be adjusted, accordingly, after reference to a minimum of 1-2 m/s (200-400 f/min) for extraction of ions, producing performance deficits within the extraction	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irrit lenses or restrictions on use, should be created for each workplace or task. This should include chemicals in use and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove at the first signs of eye redness or irritation - lens should be removed in a clean environment only Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 	a review of lens absorption and adsorption for the class of trained in their removal and suitable equipment should be contact lens as soon as practicable. Lens should be removed	
Skin protection	See Hand protection below		
Hands/feet protection	 Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, whe all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and dest The selection of suitable gloves does not only depend on the material, but also on further marks of qu the chemical is a preparation of several substances, the resistance of the glove material can not be c to the application. The exact break through time for substances has to be obtained from the manufacturer of the protectic choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. It 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 glove frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation when prolonged or frequently repeated contact may occur, a glove with a protectio 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 (IEN 374, AS/NZS 2161.1.0 r) antional equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken 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 glove will be dependent on the exact composition of the glove material. Therefore, glove selection sh requirements and knowledge of br	royed. laility which vary from manufacturer to manufacturer. Where alculated in advance and has therefore to be checked prior ve gloves and has to be observed when making a final After using gloves, hands should be washed and dried wes include: hal equivalent). In class of 5 or higher (breakthrough time greater than 240 d. breakthrough time greater than 60 minutes according to into account when considering gloves for long-term use. to a specific chemical, as the permeation efficiency of the ould also be based on consideration of the task vdel. Therefore, the manufacturers' technical data should ecific tasks. For example: nanual dexterity is needed. However, these gloves are only	
	 likely to give short duration protection and would normally be just for single use application Thicker gloves (up to 3 mm or more) may be required where there is a mechanical puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried the recommended. Butyl rubber gloves Nitrite rubber gloves. 	I (as well as a chemical) risk i.e. where there is abrasion or	
Body protection	Thicker gloves (up to 3 mm or more) may be required where there is a mechanical puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried the recommended.	I (as well as a chemical) risk i.e. where there is abrasion or	
Body protection Other protection	 Thicker gloves (up to 3 mm or more) may be required where there is a mechanical puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried the recommended. Butyl rubber gloves Nitrile rubber gloves 	I (as well as a chemical) risk i.e. where there is abrasion or	

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)	8.5	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	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.
Ingestion	The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum. Ingestion of propylene glycol produced reversible central nervous system depression in humans following ingestion of 60 ml. Symptoms included increased heart-rate (tachycardia), excessive sweating (diaphoresis) and grand mal seizures in a 15 month child who ingested large doses (7.5 ml/day for 8 days) as an ingredient of vitamin preparation. Excessive repeated ingestions may cause hypoglycaemia (low levels of glucose in the blood stream) among susceptible individuals; this may result in muscular weakness, incoordination and mental confusion. Very high doses given during feeding studies to rats and dogs produce central nervous system depression (although one-third of that produced by ethanol), haemolysis and insignificant kidney changes. In humans propylene glycol is partly excreted unchanged in the urine and partly metabolised as lactic and pyruvic acid. Lactic acidosis may result. Taken by mouth, isothiazolinones have moderate to high toxicity. The major signs of toxicity are severe stomach irritation, lethargy, and inco-ordination. Dusts of titanium and titanium compounds are thought to exhibit little or no toxic effects.
Skin Contact	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives . Solutions of isothiazolinones may be irritating or even damaging to the skin, depending on concentration. A concentration of over 0.1% can irritate, and over 0.5% can cause severe irritation. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	If applied to the eyes, this material causes severe eye damage. Solutions containing isothiazolinones may damage the mucous membranes and comea. Animal testing showed very low concentrations (under 0.1%) did not cause irritation, while higher levels (3-5.5%) produced severe irritation and damage to the eye.

Chronic	Studies show that inhaling this substance for over a long perior Skin contact with the material is more likely to cause a sensitis Toxic: danger of serious damage to health by prolonged expose This material can cause serious damage if one is exposed to i defects. Substance accumulation, in the human body, may occur and m The isothiazolinones are known contact sensitisers. Sensitisat There has been concern that this material can cause cancer of Long term exposure to titanium and several of its compounds right heart enlargements occur.	ation reaction in some persons compared to t sure through inhalation. It for long periods. It can be assumed that it co ay cause some concern following repeated or ion is more likely with the chlorinated species r mutations, but there is not enough data to ma	the general population. Intains a substance which can produce severe r long-term occupational exposure. as opposed to the non-chlorinated species. ake an assessment.
Trouble Shooter AcrWhite	TOXICITY	IRRITATION	
45100	Not Available	Not Available	
		IRRITATION	
	Inhalation (rat) LC50: >2.28 mg/l/4hr ^[1]	Skin (human): 0.3 mg/3	3D (int)-mild *
	Inhalation (rat) LC50: >3.56 mg/l/4hr ^[1]		
titanium dioxide	Inhalation (rat) LC50: >6.82 mg/l/4hr ^[1]		
	Inhalation (rat) LC50: 3.43 mg/l/4hr ^[1]		
	Inhalation (rat) LC50: 5.09 mg/l/4hr ^[1]		
	Oral (rat) LD50: >2000 mg/kg ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
calcium carbonate	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 0.75 mg/24h - 5	SEVERE
	Oral (rat) LD50: >2000 mg/kg ^[1]	Skin (rabbit): 500 mg/24h-m	oderate
	· · · · · · · · · · · · · · · · · · ·		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg - m	ild
propylene glycol	Oral (rat) LD50: 20000 mg/kg ^[2]	Eye (rabbit): 500 mg/24h	n - mild
		Skin(human):104 mg/3d	
		Skin(human):500 mg/7da	
	TOXICITY		IRRITATION
	dermal (rat) LD50: >2500 mg/kg ^[2]		Not Available
chlorothalonil	Inhalation (rat) LC50: 0.1 mg/l/4h. ^[2]		
	Inhalation (rat) LC50: 0.31 mg/L/1hr ^[2]		
	Oral (rat) LD50: 10000 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
zinc oxide	Oral (rat) LD50: >5000 mg/kg ^[1]	Eye (rabbit) : 500 mg/24 h	a - mild
		Skin (rabbit) : 500 mg/24	
Legend:	1. Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical S		Ifacturer's SDS. Unless otherwise specified data
TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to in Exposure to titanium dioxide is via inhalation, swallowing or ski the lungs and immune system. Absorption by the stomach and * IUCLID	n contact. When inhaled, it may deposit in lur	ng tissue and lymph nodes causing dysfunction of
CALCIUM CARBONATE	The material may produce severe irritation to the eye causing conjunctivitis. No evidence of carcinogenic properties. No evidence of muta		nged exposure to irritants may produce
PROPYLENE GLYCOL	The acute oral toxicity of propylene glycol is very low, and larg generally occurs only at plasma concentrations over 1 g/L, wh impossible to reach toxic levels by consuming foods or supple	ich requires extremely high intake over a relat	

CHLOROTHALONIL	Chlorothalonil has low toxicity, according to animal testing. It the kidney and forestomach. ADI: 0.01 mg/kg/day NOEL: 1.5 mg/kg/day	irritates the skin and eye. Animal tes	ting suggests that at sufficient doses it can cause cancer of
5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE	No significant acute toxicological data identified in literature The material may be irritating to the eye, with prolonged cont NOTE: Substance has been shown to be mutagenic in at lea Considered to be the major sensitiser in Kathon CG (1) (1).	act causing inflammation. Repeated st one assay, or belongs to a family c	f chemicals producing damage or change to cellular DNA.
TITANIUM DIOXIDE & CALCIUM CARBONATE & PROPYLENE GLYCOL & 5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE & ZINC OXIDE	The material may cause skin irritation after prolonged or repe scaling and thickening of the skin.	ated exposure and may produce on	contact skin redness, swelling, the production of vesicles,
TITANIUM DIOXIDE & CHLOROTHALONIL	WARNING: This substance has been classified by the IAR	C as Group 2B: Possibly Carcinogen	ic to Humans.
CALCIUM CARBONATE & CHLOROTHALONIL & 5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE	Asthma-like symptoms may continue for months or even year reactive airways dysfunction syndrome (RADS) which can o of RADS include the absence of preceding respiratory diseas to hours of a documented exposure to the irritant.	ccur following exposure to high level	s of highly irritating compound. Key criteria for the diagnosis
CHLOROTHALONIL & 5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE	The following information refers to contact allergens as a gro Contact allergies quickly manifest themselves as contact ecz a cell-mediated (T lymphocytes) immune reaction of the delay	ema, more rarely as urticaria or Quin	oduct. cke's oedema. The pathogenesis of contact eczema involves
Acute Toxicity	0	Carcinogenicity	✓
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	*	STOT - Single Exposure	\otimes
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	✓
Mutagenicity	\otimes	Aspiration Hazard	\otimes
		Legend: 🗙	- Data available but does not fill the criteria for classification

 Data available but does not fill the cri
 Data available to make classification pes not fill the criteria for class

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
titanium dioxide	LC50	96	Fish	9.214mg/L	3
titanium dioxide	EC50	48	Crustacea	>10mg/L	2
titanium dioxide	EC50	72	Algae or other aquatic plants	5.83mg/L	4
titanium dioxide	EC20	72	Algae or other aquatic plants	1.81mg/L	4
titanium dioxide	NOEC	336	Fish	0.089mg/L	4
calcium carbonate	LC50	96	Fish	>56000mg/L	4
calcium carbonate	EC50	72	Algae or other aquatic plants	>14mg/L	2
calcium carbonate	NOEC	72	Algae or other aquatic plants	14mg/L	2
propylene glycol	LC50	96	Fish	710mg/L	4
propylene glycol	EC50	48	Crustacea	>1000mg/L	4
propylene glycol	EC50	96	Algae or other aquatic plants	10905.921mg/L	3
propylene glycol	EC50	384	Crustacea	311.145mg/L	3
propylene glycol	NOEC	168	Fish	98mg/L	4
chlorothalonil	LC50	96	Fish	0.0076mg/L	4
chlorothalonil	EC50	48	Crustacea	0.0066475mg/L	4
chlorothalonil	EC50	72	Algae or other aquatic plants	0.0068mg/L	4
chlorothalonil	BCF	336	Algae or other aquatic plants	0.02mg/L	4
chlorothalonil	EC10	48	Crustacea	0.00055839mg/L	4
chlorothalonil	NOEC	240	Crustacea	0.0003mg/L	4
5-chloro-2-methyl- 4-isothiazolin-3-one	LC50	96	Fish	0.19mg/L	4
5-chloro-2-methyl- 4-isothiazolin-3-one	EC50	48	Crustacea	0.028mg/L	4
5-chloro-2-methyl- 4-isothiazolin-3-one	EC50	72	Algae or other aquatic plants	0.021mg/L	4
5-chloro-2-methyl- 4-isothiazolin-3-one	EC50	120	Algae or other aquatic plants	0.022mg/L	4
5-chloro-2-methyl- 4-isothiazolin-3-one	NOEC	504	Crustacea	0.172mg/L	1

^{🚫 –} Data Not Available to make classification

zinc oxide	LC50	96	Fish	0.439mg/L	2
zinc oxide	EC50	48	Crustacea	0.105mg/L	2
zinc oxide	EC50	72	Algae or other aquatic plants	0.042mg/L	4
zinc oxide	BCF	336	Fish	4376.673mg/L	4
zinc oxide	EC20	72	Algae or other aquatic plants	0.023mg/L	4
zinc oxide	NOEC	72	Algae or other aquatic plants	0.0049mg/L	2
Laward		,	Europe ECHA Registered Substances - Ecotoxicolo		



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

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

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

Propylene glycol is known to exert high levels of biochemical oxygen demand (BOD) during degradation in surface waters. This process can adversely affect aquatic life by consuming oxygen needed by aquatic organisms for survival. Large quantities of dissolved oxygen (DO) in the water column are consumed when microbial populations decompose propylene glycol. Sufficient dissolved oxygen levels in surface waters are critical for the survival of fish, macro-invertebrates, and other aquatic organisms. If oxygen concentrations drop below a minimum level, organisms emigrate, if able and possible, to areas with higher oxygen levels or eventually die. This effect can drastically reduce the amount of usable aquatic habitat. Reductions in DO levels can reduce or eliminate bottom-feeder populations, create conditions that favour a change in a community's species profile, or alter critical food-web interactions.

log Kow : -1.41- -0.3 Half-life (hr) air : 32 Henry's atm m3 /mol: 1.20E-08 BOD 5: 0.995,2.2% ThOD : 1.685 BCF : <1 Bioaccumulation : not sig processes Abiotic: photoxid

Environmental Fate: Isothiazolinones are antimicrobials used to control bacteria, fungi, and for wood preservation and antifouling agents. They are frequently used in personal care products such as shampoos and other hair care products, as well as certain paint formulations. The most common isothiazolinone combinations are 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI).

Aquatic Fate: 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI), undergo primary biological breakdown with half-lives of less than 24 hours in both oxygenated and low oxygen sediments with >55% breakdown occurring within 29 days.

Ecotoxicity: The isothiazolinones are very toxic to marine organisms, (fish, Daphnia magna water fleas, and algae), and have low potential for accumulation in aquatic species. The proposed metabolites of MI and CMI are considered to have a low aquatic toxicity, based partially on data for the structurally related N-(n-octyl) malonamic acid.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide	HIGH	HIGH
propylene glycol	LOW	LOW
chlorothalonil	HIGH	HIGH
5-chloro-2-methyl- 4-isothiazolin-3-one	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
titanium dioxide	LOW (BCF = 10)
propylene glycol	LOW (BCF = 1)
chlorothalonil	LOW (BCF = 125)
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (LogKOW = 0.0444)
zinc oxide	LOW (BCF = 217)

Mobility in soil

Ingredient	Mobility
titanium dioxide	LOW (KOC = 23.74)
propylene glycol	HIGH (KOC = 1)
chlorothalonil	LOW (KOC = 2392)
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (KOC = 45.15)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

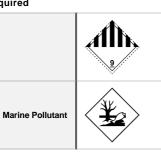
Product / Packaging disposal Containers may still present a chemical hazard/ danger when empty.
 Return to supplier for reuse/ recycling if possible.

- Otherwise:
- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

• Where possible retain label warnings and SDS and observe all notices pertaining to the product.
Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some
areas, certain wastes must be tracked.
A Hierarchy of Controls seems to be common - the user should investigate:
► Reduction
► Reuse
► 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 sever may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Land transport (DOT)

UN number	3082		
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.		
Transport hazard class(es)	Class9SubriskNot Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Hazard Label9Special provisions8, 146, 173, 335, IB3, T4, TP1, TP29		

Air transport (ICAO-IATA / DGR)

UN number	3082		
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. *		
Transport hazard class(es)	ICAO/IATA Class	9	
	ICAO / IATA Subrisk	Not Applicable	
	ERG Code	9L	
Packing group	III		
Environmental hazard	Not Applicable		
			1
Special precautions for user	Special provisions		A97 A158 A197
	Cargo Only Packing Instructions		964
	Cargo Only Maximum Qty / Pack		450 L
	Passenger and Cargo Packing Instructions		964
	Passenger and Cargo Maximum Qty / Pack		450 L
	Passenger and Cargo Limited Quantity Packing Instructions		Y964
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G
			1

Sea transport (IMDG-Code / GGVSee)

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)	IMDG Class9IMDG SubriskNot Applicable		
Packing group			
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS NumberF-A, S-FSpecial provisions274 335 969Limited Quantities5 L		

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(13463-67-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - California Permissible Exposure Limits for Chemical 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 NIOSH Recommended Exposure Limits (RELs)
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk
US - Pennsylvania - Hazardous Substance List	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
US - Rhode Island Hazardous Substance List	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
CALCIUM CARBONATE(1317-65-3) IS FOUND ON THE FOLLOWING REGULATORY LIST	s
US - Alaska Limits for Air Contaminants	US - Rhode Island Hazardous Substance List
US - California Permissible Exposure Limits for Chemical Contaminants	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - Hawaii Air Contaminant Limits	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Idaho - Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Massachusetts - Right To Know Listed Chemicals	Contaminants
US - Michigan Exposure Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - Minnesota Permissible Exposure Limits (PELs)	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
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 Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
PROPYLENE GLYCOL(57-55-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
US - Pennsylvania - Hazardous Substance List	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US - Rhode Island Hazardous Substance List	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US AIHA Workplace Environmental Exposure Levels (WEELs)	
CHLOROTHALONIL(1897-45-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens
US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals	US - Pennsylvania - Hazardous Substance List
Causing Reproductive Toxicity	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US - California Proposition 65 - Carcinogens	US EPCRA Section 313 Chemical List
US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Massachusetts - Right To Know Listed Chemicals	

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE(26172-55-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

US TSCA Section 5(a)(2) - Significant New Use Rules (SNURs)

ZINC OXIDE(1314-13-2) 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 Transitional Limits for Air
Monographs	Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
(CRELs)	US ACGIH Threshold Limit Values (TLV)
US - California Permissible Exposure Limits for Chemical Contaminants	US CWA (Clean Water Act) - Priority Pollutants
US - Hawaii Air Contaminant Limits	US CWA (Clean Water Act) - Toxic Pollutants
US - Idaho - Limits for Air Contaminants	US EPA Carcinogens Listing
US - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
US - Michigan Exposure Limits for Air Contaminants	US National Toxicology Program (NTP) 14th Report Part B. Reasonably Anticipated to be a
US - Minnesota Permissible Exposure Limits (PELs)	Human Carcinogen
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 OSHA Permissible Exposure Levels (PELs) - Table Z3
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	Yes
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4) None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

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

US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

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

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (chlorothalonil; 5-chloro-2-methyl-4-isothiazolin-3-one; propylene glycol)
China - IECSC	Y
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	13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9
calcium carbonate	471-34-1, 13397-26-7, 15634-14-7, 1317-65-3, 72608-12-9, 878759-26-3, 63660-97-9, 459411-10-0, 198352-33-9, 146358-95-4
zinc oxide	1314-13-2, 175449-32-8

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.

end of SDS

Trouble Shooter Acr.-White 45100

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_o IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest 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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