

# **ICP Construction**

Version No: 2.2

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

SECTION 1 IDENTIFICATION

**Product Identifier** 

Product name	All Wall & Trim Primer-White 56600	
Synonyms	Not Available	
Other means of identification	Not Available	
Recommended use of the	Recommended use of the chemical and restrictions on use	
Relevant identified uses	Interior primer for use over wallboard, sheetrock, wood and masonry surfaces	

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

Registered company name	ICP Construction
Address	150 Dascomb Road Massachusetts Andover United States
Telephone	978-623-9980
Fax	Not Available
Website	Not Available
Email	Not Available

#### Emergency phone number

0,1	
Association / Organisation	Chemtel
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

# SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the subst	ance or mixture
Classification	Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Eye Irritation Category 2A, Carcinogenicity Category 1A, Acute Aquatic Hazard Category 3
Label elements	
GHS label elements	
SIGNAL WORD	DANGER
Hazard statement(s)	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350	May cause cancer.
H402	Harmful to aquatic life

## Hazard(s) not otherwise specified

Not Applicable

#### Precautionary statement(s) Prevention

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

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P281 Use personal protective equipment as required.

P308+P313	IF exposed or concerned: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
Precautionary statement(s	) Storage

# 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	<u>titanium dioxide</u>
107-21-1	1-5	ethylene glycol
14808-60-7	5-10	silica crystalline - quartz
26172-55-4	0.1-1	5-chloro-2-methyl-4-isothiazolin-3-one

# SECTION 4 FIRST-AID MEASURES

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

#### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- 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

## **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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>,</li> <li>silicon dioxide (SiO2)</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>

# 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	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	<ul> <li>Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite.</li> <li>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 (HCl).</li> <li>Glutathione has also been used to inactivate the isothiazolinones.</li> </ul>

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

# SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Titanium dioxide</li> <li>reacts with strong acids, strong oxidisers</li> <li>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</li> <li>dust or powders can ignite and then explode in a carbon dioxide atmosphere</li> <li>WARNING: Avoid or control reaction with peroxides. All <i>transition metal</i> peroxides should be considered as potentially explosive. For example transition meta complexes of alkyl hydroperoxides may decompose explosively.</li> <li>Silicas:</li> <li>react with hydrofluoric acid to produce silicon tetrafluoride gas</li> <li>react with xenon hexafluoride to produce explosive xenon trioxide</li> <li>reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds</li> <li>may react with furine, chlorates</li> <li>are incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate</li> <li>may react vigorously when heated with alkali carbonates.</li> </ul>

# 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 ACGIH Threshold Limit Values (TLV)	ethylene glycol	‡ Ethylene glycol	Not Available	Not Available	100 mg/m3	TLV® Basis: URT & eye irr

US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	1,2-Dihydroxyethane; 1,2-Ethanediol; Glycol; Glycol alcohol; Monoethylene glycol	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica crystalline - quartz	Silica, crystalline quartz, respirable dust	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z3	silica crystalline - quartz	Silica: Crystalline Quartz	10/(% SiO2+ 2) mg/m3 / 30/(% SiO2+ 2) mg/m3 / 250/(%SiO2+5) mppcf	Not Available	Not Available	(Respirable);(TWA mppcf (The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable)); (TWA mg/m3 (e)) / (Total Dust)
US NIOSH Recommended Exposure Limits (RELs)	silica crystalline - quartz	Cristobalite, Quartz, Tridymite, Tripoli	0.05 mg/m3	Not Available	Not Available	Ca See Appendix A

## EMERGENCY LIMITS

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
ethylene glycol	Ethylene glycol 30 ppm			40 ppm	60 ppm
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	:	33 mg/m3	200 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
Ingredient	Original IDLH		Revised ID	LH	
titanium dioxide	N.E. mg/m3 / N.E. ppm	N.E. mg/m3 / N.E. ppm		3	
ethylene glycol	Not Available	Not Available		e	
silica crystalline - quartz	N.E. mg/m3 / N.E. ppm	N.E. mg/m3 / N.E. ppm			
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available		Not Available	<u>Ş</u>	

## Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>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.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Butyl rubber gloves</li> <li>Nitrile rubber gloves</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> </ul>
Thermal hazards	Not Available

# **Respiratory protection**

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

If inhalation risk above the TLV exists, wear approved dust respirator.

- Use respirators with protection factors appropriate for the exposure level.
  - Up to 5 X TLV, use valveless mask type; up to 10 X TLV, use 1/2 mask dust respirator
  - Up to 50 X TLV, use full face dust respirator or demand type C air supplied respirator
  - Up to 500 X TLV, use powered air-purifying dust respirator or a Type C pressure demand supplied-air respirator
  - Over 500 X TLV wear full-face self-contained breathing apparatus with positive pressure mode or a combination respirator with a Type C positive pressure supplied-air full-face respirator and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Appearance	Not Available		
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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. 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	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. 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 us of the material and ensure that any external damage is suitably protected.
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons. 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 period (e.g. in an occupational setting) may increase the risk of cancer. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Crystalline silicas activate the inflammatory response of white blood cells after they injure the lung epithelium. Chronic exposure to crystalline silicas reduces lung capacity and predisposes to chest infections. The isothiazolinones are known contact sensitisers. Sensitisation is more likely with the chlorinated species as opposed to the non-chlorinated species. 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 titanium and several of its compounds produces lung scarring and chronic bronchitis. Breathing is impaired and cardiac changes with right heart enlargements occur.
All Wall & Trim Primer-White 56600	TOXICITY IRRITATION

	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Inhalation (rat) LC50: >2.28 mg/l/4hr <sup>[1]</sup>	Skin (human): (	0.3 mg /3D (int)-mild *
	Inhalation (rat) LC50: >3.56 mg/l/4hr <sup>[1]</sup>		
titanium dioxide	Inhalation (rat) LC50: >6.82 mg/l/4hr <sup>[1]</sup>		
	Inhalation (rat) LC50: 3.43 mg/l/4hr <sup>[1]</sup>		
	Inhalation (rat) LC50: 5.09 mg/l/4hr <sup>[1]</sup>		
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 9530 mg/kg <sup>[2]</sup>	Eye (rabbit): 10	-
ethylene glycol	Inhalation (rat) LC50: 50.1 mg/L/8 hr <sup>[2]</sup>	Eye (rabbit): 12	·
	Oral (rat) LD50: 4700 mg/kg <sup>[2]</sup>		40mg/6h-moderate
			00 mg/24h - mild
		Skin (rabbit): 55	55 mg(open)-mild
oilioo onetallina	TOXICITY	IRRITATION	
silica crystalline - quartz	Not Available	Not Available	
	ΤΟΧΙCITY	IRRITATION	
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available	Not Available	
		1	
	extracted from RTECS - Register of Toxic Effect of chemical S		
TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to inl Exposure to titanium dioxide is via inhalation, swallowing or ski the lungs and immune system. Absorption by the stomach and	flammation. Repeated or prolonged n contact. When inhaled, it may de intestines depends on the size of th	posit in lung tissue and lymph nodes causing dysfunction ne particle.
TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to inf Exposure to titanium dioxide is via inhalation, swallowing or skii	flammation. Repeated or prolonged n contact. When inhaled, it may de intestines depends on the size of th	posit in lung tissue and lymph nodes causing dysfunction ne particle.
TITANIUM DIOXIDE	The material may produce moderate eye irritation leading to inf Exposure to titanium dioxide is via inhalation, swallowing or skit the lungs and immune system. Absorption by the stomach and <b>WARNING:</b> This substance has been classified by the IARC * IUCLID For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through th respiratory tract; dermal absorption is apparently slow. Followir	flammation. Repeated or prolonged n contact. When inhaled, it may de intestines depends on the size of th as Group 2B: Possibly Carcinogen le gastrointestinal tract. Limited info ng absorption, ethylene glycol is dis	posit in lung tissue and lymph nodes causing dysfunction re particle. hic to Humans. prmation suggests that it is also absorbed through the stributed throughout the body according to total body wate
	The material may produce moderate eye irritation leading to inf Exposure to titanium dioxide is via inhalation, swallowing or skit the lungs and immune system. Absorption by the stomach and <b>WARNING:</b> This substance has been classified by the IARC * IUCLID For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through th	flammation. Repeated or prolonged n contact. When inhaled, it may de intestines depends on the size of th as Group 2B: Possibly Carcinogen the gastrointestinal tract. Limited info ng absorption, ethylene glycol is dis prica] Substance is reproductive effo	posit in lung tissue and lymph nodes causing dysfunction ne particle. iic to Humans. prmation suggests that it is also absorbed through the stributed throughout the body according to total body wate ector in rats (birth defects). Mutagenic to rat cells.
	The material may produce moderate eye irritation leading to int Exposure to titanium dioxide is via inhalation, swallowing or skit the lungs and immune system. Absorption by the stomach and <b>WARNING:</b> This substance has been classified by the IARC * IUCLID For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through th respiratory tract; dermal absorption is apparently slow. Followir [Estimated Lethal Dose (human) 100 ml; RTECS quoted by O	flammation. Repeated or prolonged n contact. When inhaled, it may dej intestines depends on the size of th as Group 2B: Possibly Carcinogen e gastrointestinal tract. Limited info ng absorption, ethylene glycol is dis irica] Substance is reproductive effr as been classified by the IARC as C classified occupational exposures IARC considered sufficient evidence	posit in lung tissue and lymph nodes causing dysfunction ne particle. iic to Humans. mation suggests that it is also absorbed through the stributed throughout the body according to total body wate ector in rats (birth defects). Mutagenic to rat cells. Group 1: <b>CARCINOGENIC TO HUMANS</b> to <b>respirable</b> (<5 um) crystalline silica as being the from epidemiological studies of humans for the
ETHYLENE GLYCOL SILICA CRYSTALLINE - QUARTZ	The material may produce moderate eye irritation leading to inf Exposure to titanium dioxide is via inhalation, swallowing or skit the lungs and immune system. Absorption by the stomach and <b>WARNING:</b> This substance has been classified by the IARC · * IUCLID For ethylene glycol: Ethylene glycol: Ethylene glycol: Ethylene glycol: Ethylene detral Dose (human) 100 ml; RTECS quoted by O <b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has The International Agency for Research on Cancer (IARC) has carcinogenic to humans . This classification is based on what I	flammation. Repeated or prolonged n contact. When inhaled, it may dej intestines depends on the size of th as Group 2B: Possibly Carcinogen the gastrointestinal tract. Limited info ng absorption, ethylene glycol is dis prica] Substance is reproductive effe as been classified by the IARC as G classified occupational exposures IARC considered sufficient evidenc stobalite. Crystalline silica is also kr p and may not be specific to this pr ma, more rarely as urticaria or Quin d type. earch.	posit in lung tissue and lymph nodes causing dysfunction re particle. inc to Humans. brmation suggests that it is also absorbed through the stributed throughout the body according to total body wate ector in rats (birth defects). Mutagenic to rat cells. Group 1: CARCINOGENIC TO HUMANS to respirable (<5 um) crystalline silica as being the from epidemiological studies of humans for the hown to cause silicosis, a non-cancerous lung disease. roduct. Incke's oedema. The pathogenesis of contact eczema involu-
ETHYLENE GLYCOL SILICA CRYSTALLINE -	The material may produce moderate eye irritation leading to int Exposure to titanium dioxide is via inhalation, swallowing or skit the lungs and immune system. Absorption by the stomach and <b>WARNING:</b> This substance has been classified by the IARC * IUCLID For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through th respiratory tract; dermal absorption is apparently slow. Followir [Estimated Lethal Dose (human) 100 ml; RTECS quoted by O <b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has carcinogenic to humans . This classification is based on what carcinogenicity of inhaled silica in the forms of quartz and criss The following information refers to contact allergens as a group Contact allergies quickly manifest themselves as contact cezer a cell-mediated (T lymphocytes) immune reaction of the delayer. No significant acute toxicological data identified in literature set	flammation. Repeated or prolonged n contact. When inhaled, it may dej intestines depends on the size of th as Group 2B: Possibly Carcinogen le gastrointestinal tract. Limited info ng absorption, ethylene glycol is dis brica] Substance is reproductive effe as been classified by the IARC as G is classified occupational exposures IARC considered sufficient evidence tobalite. Crystalline silica is also kr p and may not be specific to this pr ma, more rarely as urticaria or Quin d type. earch. ct causing inflammation. Repeated after exposure to the material ceases cur following exposure to high levels i, in a non-atopic individual, with abr	posit in lung tissue and lymph nodes causing dysfunction re particle. inc to Humans. Income the particle is also absorbed through the stributed throughout the body according to total body water ector in rats (birth defects). Mutagenic to rat cells. Group 1: CARCINOGENIC TO HUMANS Ito respirable (<5 um) crystalline silica as being the form epidemiological studies of humans for the nown to cause silicosis, a non-cancerous lung disease. roduct. Incke's oedema. The pathogenesis of contact eczema invol- or prolonged exposure to irritants may produce conjuncti- es. This may be due to a non-allergenic condition known ar- s of highly irritating compound. Key criteria for the diagno- rupt onset of persistent asthma-like symptoms within minu- of chemicals producing damage or change to cellular DN
ETHYLENE GLYCOL SILICA CRYSTALLINE - QUARTZ 5-CHLORO-2-METHYL-	The material may produce moderate eye irritation leading to int Exposure to titanium dioxide is via inhalation, swallowing or skit the lungs and immune system. Absorption by the stomach and <b>WARNING:</b> This substance has been classified by the IARC • • IUCLID For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through th respiratory tract; dermal absorption is apparently slow. Followir [Estimated Lethal Dose (human) 100 ml; RTECS quoted by O <b>WARNING:</b> For inhalation exposure <u>ONLY</u> : This substance has the International Agency for Research on Cancer (IARC) has carcinogenicity of inhaled silica in the forms of quartz and cris The International Agency for Research on Cancer (IARC) has carcinogenicity of inhaled silica in the forms of quartz and cris The following information refers to contact allergens as a group Contact allergies quickly manifest themselves as contact eczer a cell-mediated (T lymphocytes) immune reaction of the delayee No significant acute toxicological data identified in literature so The material may be irritating to the eye, with prolonged contact Asthma-like symptoms may continue for months or even years reactive ainways dysfunction syndrome (RADS) which can occ of RADS include the absence of preceding respiratory disease to hours of a documented exposure to the irritant. <b>NOTE:</b> Substance has been shown to be mutagenic in at least	flammation. Repeated or prolonged n contact. When inhaled, it may de intestines depends on the size of th as Group 2B: Possibly Carcinogen e gastrointestinal tract. Limited info ng absorption, ethylene glycol is dis prica] Substance is reproductive effe as been classified by the IARC as G classified occupational exposures IARC considered sufficient evidenc tobalite. Crystalline silica is also kn p and may not be specific to this pr ma, more rarely as urticaria or Quin d type. earch. ct causing inflammation. Repeated after exposure to the material cease cur following exposure to high levels a, in a non-atopic individual, with abr	posit in lung tissue and lymph nodes causing dysfunction re particle. inc to Humans. brmation suggests that it is also absorbed through the stributed throughout the body according to total body wate ector in rats (birth defects). Mutagenic to rat cells. Group 1: <b>CARCINOGENIC TO HUMANS</b> to <b>respirable</b> (<5 um) crystalline silica as being the from epidemiological studies of humans for the nown to cause silicosis, a non-cancerous lung disease. roduct. Incke's oedema. The pathogenesis of contact eczema invol- or prolonged exposure to irritants may produce conjuncti- es. This may be due to a non-allergenic condition known ar s of highly irritating compound. Key criteria for the diagno- rupt onset of persistent asthma-like symptoms within minu- of chemicals producing damage or change to cellular DN 19-39, 1989
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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
ethylene glycol	LC50	96	Fish	2284.940mg/L	3
ethylene glycol	EC50	48	Crustacea	5046.29mg/L	5
ethylene glycol	EC50	96	Algae or other aquatic plants	6500-13000mg/L	1
ethylene glycol	EC50	Not Applicable	Crustacea	=10mg/L	1
ethylene glycol	NOEC	552	Crustacea	>=1000mg/L	2
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
	E 1		UIA Demintered Cutestances - Exetensionlania		

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Legend:
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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

Harmful to aquatic organisms.

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). **DO NOT** discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide	HIGH	HIGH
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)
5-chloro-2-methyl- 4-isothiazolin-3-one	HIGH	HIGH

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
titanium dioxide	LOW (BCF = 10)
ethylene glycol	LOW (BCF = 200)
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (LogKOW = 0.0444)

#### Mobility in soil

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

# SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>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.</li> <li>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.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Recycle wherever possible.</li> </ul>
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Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility. can be identified Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material). SECTION 14 TRANSPORT INFORMATION Labels Required Marine Pollutant NO Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable SECTION 15 REGULATORY INFORMATION Safety, health and environmental regulations / legislation specific for the substance or mixture TITANIUM DIOXIDE(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 - Washington Permissible exposure limits of air contaminants US - California Proposition 65 - Carcinogens 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 Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk US - Oregon Permissible Exposure Limits (Z-1) Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for US - Pennsylvania - Hazardous Substance List Chemicals Causing Reproductive Toxicity US - Rhode Island Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory ETHYLENE GLYCOL(107-21-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Alaska Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) US - Washington Permissible exposure limits of air contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - California Proposition 65 - Reproductive Toxicity US ACGIH Threshold Limit Values (TLV) US - Hawaii Air Contaminant Limits US ACGIH Threshold Limit Values (TLV) - Carcinogens US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes US - Massachusetts - Right To Know Listed Chemicals US - Michigan Exposure Limits for Air Contaminants US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - Minnesota Permissible Exposure Limits (PELs) US Clean Air Act - Hazardous Air Pollutants US EPCRA Section 313 Chemical List US - Oregon Permissible Exposure Limits (Z-1) US - Pennsylvania - Hazardous Substance List US NIOSH Recommended Exposure Limits (RELs) US - Rhode Island Hazardous Substance List US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants 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 SILICA CRYSTALLINE - QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Rhode Island Hazardous Substance List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US - Alaska Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air (CRELs) Contaminants US - 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Table Z3 Carcinogens US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk US - Oregon Permissible Exposure Limits (Z-1) Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for

US - Oregon Permissible Exposure Limits (Z-3)

US - Pennsylvania - Hazardous Substance List

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)

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

Chemicals Causing Reproductive Toxicity

#### **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)	
00. ETA OEROEA TIAZARDOOD OODOTATOEO AND RET ORTADEE QOARTITIEO (40 OT R 502.4)	

Name	Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
Ethylene glycol	5000	2270

#### 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), Ethylene glycol (ingested), Silica, crystalline (airborne particles of respirable size) Listed

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (5-chloro-2-methyl-4-isothiazolin-3-one; silica crystalline - quartz; ethylene 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
silica crystalline - quartz	14808-60-7, 122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 70594-95-5, 87347-84-0

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

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

#### 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

end of SDS

# All Wall & Trim Primer-White 56600

## BEI: Biological Exposure Index

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