

Universal Primer-Neutral Base F50695

ICP Construction

Version No: **2.2**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 01/21/2017 Print Date: 02/08/2017 S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

| Product name | Universal Primer-Neutral Base F50695 | |
|-------------------------------|--------------------------------------|--|
| Synonyms | Not Available | |
| Other means of identification | Not Available | |

Recommended use of the chemical and restrictions on use

| Relevant identified uses | Interior /Exterior stain blocking Primer |
|--------------------------|--|
| | |

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

| Registered company name | CP Construction | | |
|-------------------------|--|--|--|
| Address | 0 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 | Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Eye Irritation Category 2A, Acute Aquatic Hazard Category 3

Label elements

GHS label elements



SIGNAL WORD | WARNING

Hazard statement(s)

| ······································ | | | |
|--|--------------------------------------|--|--|
| H315 | auses skin irritation. | | |
| H317 | May cause an allergic skin reaction. | | |
| H319 | Causes serious eye irritation. | | |
| H402 | Harmful to aquatic life | | |

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
|------|--|--|
| P261 | Avoid breathing mist/vapours/spray. | |
| P273 | Avoid release to the environment. | |

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Precautionary statement(s) Response

| P362 | Take off contaminated clothing and wash before reuse. | |
|----------------|--|--|
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. | |
| P305+P351+P338 | 305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |

Precautionary statement(s) Storage

Not Applicable

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 |
| 107-21-1 | 1-5 | ethylene glycol |
| 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 | If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|---|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | 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.

For acute or short term repeated exposures to ethylene glycol:

- lacktriangledown 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

- ► Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.

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Fire/Explosion Hazard

- ▶ Prevent, by any means available, spillage from entering drains or water courses.
- Non combustible
- ▶ Not considered a significant fire risk, however containers may burn.

May emit poisonous fumes.

May emit corrosive fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills

- ► Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ▶ Control personal contact with the substance, by using protective equipment.
- **Major Spills**
- 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.

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.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

Other information

Conditions for safe storage, including any incompatibilities

Suitable container

Storage incompatibility

- ▶ Polyethylene or polypropylene container.
- Packing as recommended by manufacturer
- ▶ Check all containers are clearly labelled and free from leaks.

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 temperatures - these reactions involves reduction of the oxide and are accompanied by incandescence
 - ▶ dust or powders can ignite and then explode in a carbon dioxide atmosphere
 - WARNING: Avoid or control reaction with peroxides. All transition metal peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| 1 | | | | | | |
|---|---------------------|---|------------------|------------------|------------------|---------------------------|
| 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 |

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 |
| 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 | Revis | ed IDLH | |

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| titanium dioxide | N.E. mg/m3 / N.E. ppm | 5,000 mg/m3 |
|--|-----------------------|---------------|
| ethylene glycol | Not Available | Not Available |
| 5-chloro-2-methyl- 4-isothiazolin-3-one | Not Available | Not Available |

Exposure controls

| 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 | Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: 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. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Butyl rubber gloves Nitrile rubber gloves |

Respiratory protection

Body protection

Other protection

Thermal hazards

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

See Other protection below

Overalls.

Not Available

► P.V.C. apron.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| A | T | | |
|--|---------------|---|---------------|
| 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 |
|------------|---------------|

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| 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 |

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).

SECTION 11 TOXICOLOGICAL INFORMATION

| Information on toxicological effects | Information | on t | oxicol | ogical | effects |
|--------------------------------------|-------------|------|--------|--------|---------|
|--------------------------------------|-------------|------|--------|--------|---------|

| Inhaled | | s or irritation of the respiratory tract (as classified by EC Directives using animal models). be kept to a minimum and that suitable control measures be used in an occupational setting. | | |
|---|--|--|--|--|
| Ingestion | taken by mouth, isotniazolinones have moderate to high toxicity. The major signs of toxicity are severe stomach irritation, lethargy, and inco-ordination. | | | |
| Skin Contact | Dusts of titanium and titanium compounds are thought to exhibit little or no toxic effects. 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 use of the material and ensure that any external damage is suitably protected. | | | |
| Еуе | 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 cornea. 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 | Skin contact with the material is more likely to cause a sensiti Substance accumulation, in the human body, may occur and n The isothiazolinones are known contact sensitisers. Sensitisa There has been concern that this material can cause cancer of | iod (e.g. in an occupational setting) may increase the risk of cancer. isation reaction in some persons compared to the general population. may cause some concern following repeated or long-term occupational exposure. ation is more likely with the chlorinated species as opposed to the non-chlorinated species. or mutations, but there is not enough data to make an assessment. s produces lung scarring and chronic bronchitis. Breathing is impaired and cardiac changes with | | |
| | TOXICITY | IRRITATION | | |
| Universal Primer-Neutral Base F50695 | Not Available | Not Available | | |
| titanium dioxide | TOXICITY | IRRITATION Skin (human): 0.3 mg /3D (int)-mild * | | |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | | | |
| | TOXICITY | IRRITATION | | |
| | Dermal (rabbit) LD50: 9530 mg/kg ^[2] | Eye (rabbit): 100 mg/1h - mild | | |
| ethylene glycol | Inhalation (rat) LC50: 50.1 mg/L/8 hr ^[2] | Eye (rabbit): 12 mg/m3/3D | | |
| , | Oral (rat) LD50: 4700 mg/kg ^[2] | Eye (rabbit): 1440mg/6h-moderate | | |
| | | Eye (rabbit): 500 mg/24h - mild | | |
| | | Skin (rabbit): 555 mg(open)-mild | | |
| 5-chloro-2-methyl- | TOXICITY | IRRITATION | | |
| 4-isothiazolin-3-one | Not Available | Not Available | | |
| Legend: | Nalue obtained from Europe ECHA Registered Substance extracted from RTECS - Register of Toxic Effect of chemical | s - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data Substances | | |

TITANIUM DIOXIDE

The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle.

WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. * IUCLID

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| ETHYLENE GLYCOL | For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through respiratory tract; dermal absorption is apparently slow. Follor [Estimated Lethal Dose (human) 100 ml; RTECS quoted by | wing absorption, ethylene glycol is dis | tributed throughout the body according to total body water. |
|--|--|---|--|
| 5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE | a cell-mediated (T lymphocytes) immune reaction of the delay No significant acute toxicological data identified in literature | zema, more rarely as urticaria or Quin yed type. search. tact causing inflammation. Repeated rs after exposure to the material cease secur following exposure to high levels se, in a non-atopic individual, with abr ust one assay, or belongs to a family or | cke's oedema. The pathogenesis of contact eczema involves or prolonged exposure to irritants may produce conjunctivitis. ss. This may be due to a non-allergenic condition known as so of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes of chemicals producing damage or change to cellular DNA. |
| TITANIUM DIOXIDE & 5-CHLORO-2-METHYL- 4-ISOTHIAZOLIN-3-ONE | The material may cause skin irritation after prolonged or repescaling and thickening of the skin. | eated exposure and may produce on | contact skin redness, swelling, the production of vesicles, |
| Acute Toxicity | 0 | Carcinogenicity | 0 |
| Skin Irritation/Corrosion | ~ | Reproductivity | 0 |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | 0 |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | 0 |
| Mutagenicity | 0 | Aspiration Hazard | 0 |

Legend:

★ – Data available but does not fill the criteria for classification

✓ – Data available to make classification

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 |
| 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 |
| Legend: | | , | HA Registered Substances - Ecotoxicologic database - Aquatic Toxicity Data 5. ECETO | , , | |

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, (CMI), and (CMI), and (CMI), 4-isothiazolin-3-one, (MI).

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

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 | нівн | HIGH |

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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

- 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.

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.

DO NOT allow wash water from cleaning or process equipment to enter drains

- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).

SECTION 14 TRANSPORT INFORMATION

disposa

Labels Required

| Marine Pollutant | NO |
|------------------|----|
| Marine Pollutant | NO |

Product / Packaging

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 - 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 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

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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 ACGIH Threshold Limit Values (TLV) - Carcinogens US - Hawaii Air Contaminant Limits US - Massachusetts - Right To Know Listed Chemicals US ACGIH Threshold Limit Values (TLV) - Notice of Intended Changes 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 NIOSH Recommended Exposure Limits (RELs) US - Pennsylvania - Hazardous Substance List 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

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)

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

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

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

| Name | Reportable Quantity in Pounds (lb) | 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) Listed

| National Inventory | Status |
|----------------------------------|---|
| Australia - AICS | Y |
| Canada - DSL | Υ |
| Canada - NDSL | N (5-chloro-2-methyl-4-isothiazolin-3-one; ethylene glycol) |
| China - IECSC | Y |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | Y |
| Korea - KECI | Y |
| New Zealand - NZIoC | Y |
| Philippines - PICCS | Υ |
| USA - TSCA | Υ |
| 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 |

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

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

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Universal Primer-Neutral Base F50695

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

BEI: Biological Exposure Index

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