

Leviathan Lumber Crayon

Dy-Mark

Chemwatch: 4784-03 Version No: 4.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: '

Issue Date: **16/08/2016**Print Date: **22/09/2016**S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier Product name Leviathan Lumber Crayon 12020301, 12020302, 12020303, 12020304, 12020305, 12020307, 12020311, 12020326, 12345601, 12345602, 12345603, 12345605, 12345611, 12345622, 12345601, 12345602, 12345603, 12345603, 12345601, 12345602, 12345601, 12345602, 12345601, 12345602, 12345601, 12345602, 12345601, 12345602, 12345601, 12345601, 12345602, 12345601, 12345602, 12345601, 12345602, 12345601, 12345602, 12345601, 1234Synonyms 12345626, LL-3NGRNG/P, LL-3NWHIG/P, LL-3NYELG/P, LL-3NREDG/P, Product Code: LL-3NBLKG/P, LL-3NBLUG/P Other means of Not Available identification Relevant identified uses of the substance or mixture and uses advised against Use according to manufacturer's directions. Relevant identified uses Marking Timber, Concrete, Bitumen Details of the supplier of the safety data sheet Registered company name Address 89 Formation Street Wacol QLD 4076 Australia Telephone +61 7 3271 2222

| Email | info@dymark.com.au |
|-------------------------|--------------------|
| Emergency telephone num | ıber |

Fax

Website

+61 7 3271 2751

Not Available

| Association / Organisation | Not Available |
|-----------------------------------|-----------------|
| Emergency telephone numbers | +61 403 186 708 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

| | IVIII | IVIAX | |
|---|-----------------------|---|---|
| 1 | | | |
| 1 | | | 0 = Minimum |
| 1 | | | 1 = Low 2 = Moderate |
| 1 | | | 3 = High |
| 0 | | 1 | 4 = Extreme |
| | 1 1 1 1 0 | 1 | 1 |

| Poisons Schedule | Not Applicable |
|------------------|----------------|
| Classification | Not Applicable |
| Labal alamanta | |

Label elements

| GHS label elements | Not Applicable |
|--------------------|----------------|
| SIGNAL WORD | NOT APPLICABLE |
| | |

Hazard statement(s)

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

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Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|------------|-----------|------------------------|
| 1332-58-7 | <60 | <u>kaolin</u> |
| 68476-25-5 | <60 | <u>feldspars</u> |
| 8002-74-2 | }<60 | paraffin wax |
| 57-11-4 | } | stearic acid |
| 112-80-1 | } | <u>oleic acid</u> |
| 14807-96-6 | <9 | talc |
| 822-16-2 | <9 | sodium stearate |
| 1333-86-4 | <9 | carbon black |
| 147-14-8 | <9 | C.I. Pigment Blue 15 |
| 1328-53-6 | <9 | C.I. Pigment Green 7 |
| 2425-85-6 | <9 | C.I. Pigment Red 3 |
| 13463-67-7 | <9 | titanium dioxide |
| 6358-31-2 | <9 | C.I. Pigment Yellow 74 |
| | | |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: ► Wash out immediately with water. ► If irritation continues, seek medical attention. ► Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|---|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. In case of burns: Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth. DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury. DO NOT break blister or remove solidified material. Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth. DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances. Water may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances. Reassure. Treat for shock by keeping the person warm and in a lying position. Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient. |
| Inhalation | If furnes or combustion products are inhaled remove from contaminated area. Seek medical attention. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

for copper intoxication:

- ▶ Unless extensive vomiting has occurred empty the stomach by lavage with water, milk, sodium bicarbonate solution or a 0.1% solution of potassium ferrocyanide (the resulting copper ferrocyanide is insoluble).
- Administer egg white and other demulcents.
- Maintain electrolyte and fluid balances.
- Morphine or meperidine (Demerol) may be necessary for control of pain.
- If symptoms persist or intensify (especially circulatory collapse or cerebral disturbances, try BAL intramuscularly or penicillamine in accordance with the supplier's recommendations.
- Treat shock vigorously with blood transfusions and perhaps vasopressor amines.
- Figure 1 finiting the first of the first of
- It is unlikely that methylene blue would be effective against the occassional methaemoglobinemia and it might exacerbate the subsequent haemolytic episode.
- Institute measures for impending renal and hepatic failure.

[GOSSELIN, SMITH & HODGE: Commercial Toxicology of Commercial Products]

- A role for activated for charcoals or emesis is, as yet, unproven
- ▶ In severe poisoning CaNa2EDTA has been proposed.

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[ELLENHORN & BARCELOUX: Medical Toxicology]

- ▶ Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- ▶ In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- ▶ High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Water spray or fog.
- Alcohol stable foam.
- ► Dry chemical powder.
- Carbon dioxide.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-------------------------|---|
| Advice for firefighters | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. |
| Fire/Explosion Hazard | Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions). Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion. Combustion products include; carbon dioxide (CO2) nitrogen oxides (NOx) silicon dioxide (SiO2) other pyrolysis products typical of burning organic material May emit poisonous fumes. |
| HAZCHEM | Not Applicable |

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. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal. | | | |
|--------------|--|--|--|--|
| Major Spills | Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal. | | | |

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

SECTION 7 HANDLING AND STORAGE

| Suitable container | Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks. |
|-------------------------|--|
| Storage incompatibility | ► Avoid reaction with oxidising agents alkalies |

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Must not be stored together

0 — May be stored together with specific preventions

— May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|-------------------------|---|------------------------|------------------|------------------|------------------|
| Australia Exposure Standards | kaolin | Kaolin | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | paraffin wax | Paraffin wax (fume) | 2 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | stearic acid | Stearates | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | talc | Soapstone (respirable dust) / Talc, (containing no asbestos fibres) | 3 mg/m3 / 2.5 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | sodium stearate | Stearates | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | carbon black | Carbon black | 3 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | C.I. Pigment Green 7 | Fume (thermally generated) (respirable dust) | 2 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | titanium dioxide | Titanium dioxide | 10 mg/m3 | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|----------------------|---|------------|------------|-------------|
| kaolin | Kaolin; (Aluminum silicate hydroxide; Fuller's earth [8031-18-3]) | 2 mg/m3 | 2 mg/m3 | 4.6 mg/m3 |
| paraffin wax | Paraffin, n- | 4.9 mg/m3 | 4.9 mg/m3 | 29 mg/m3 |
| stearic acid | Octadecanoic acid, n-; (Stearic acid) | 0.13 mg/m3 | 1.4 mg/m3 | 8.5 mg/m3 |
| oleic acid | Octadecenoic acid, 9-; (Oleic acid) | 220 mg/m3 | 2400 mg/m3 | 15000 mg/m3 |
| talc | Talc | 2 mg/m3 | 2 mg/m3 | 2.6 mg/m3 |
| sodium stearate | Sodium stearate | 0.26 mg/m3 | 2.8 mg/m3 | 17 mg/m3 |
| carbon black | Carbon black | 9 mg/m3 | 99 mg/m3 | 590 mg/m3 |
| C.I. Pigment Green 7 | Particulate material (PNOS) | 30 mg/m3 | 330 mg/m3 | 2000 mg/m3 |
| titanium dioxide | Titanium oxide; (Titanium dioxide) | 10 mg/m3 | 10 mg/m3 | 10 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|------------------------|-----------------------|---------------|
| kaolin | Not Available | Not Available |
| feldspars | Not Available | Not Available |
| paraffin wax | Not Available | Not Available |
| stearic acid | Not Available | Not Available |
| oleic acid | Not Available | Not Available |
| talc | N.E. mg/m3 / N.E. ppm | 1,000 mg/m3 |
| sodium stearate | Not Available | Not Available |
| carbon black | N.E. mg/m3 / N.E. ppm | 1,750 mg/m3 |
| C.I. Pigment Blue 15 | Not Available | Not Available |
| C.I. Pigment Green 7 | Not Available | Not Available |
| C.I. Pigment Red 3 | Not Available | Not Available |
| titanium dioxide | N.E. mg/m3 / N.E. ppm | 5,000 mg/m3 |
| C.I. Pigment Yellow 74 | Not Available | Not Available |

Exposure controls

Appropriate engineering controls

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

The basic types of engineering controls are:

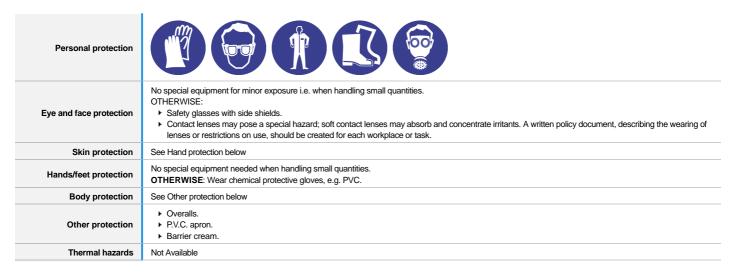
Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

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Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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| Material | СРІ |
|-----------------------|-----|
| ##C.I. Pigment Yellow | 74 |
| NATURAL RUBBER | С |
| NATURAL+NEOPRENE | С |
| NEOPRENE | С |
| NEOPRENE/NATURAL | С |
| NITRILE | С |
| PVA | С |
| PVC | С |

^{*} CPI - Chemwatch Performance Index

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|----------------------------|
| up to 10 x ES | A-AUS P2 | - | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | A-AUS / Class 1 P2 | - |
| up to 100 x ES | - | A-2 P2 | A-PAPR-2 P2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Appearance | Coloured solid; not miscible with water. | | |
|--|--|---|----------------|
| Physical state | Solid | Relative density (Water = 1) | 0.91 approx |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | 50-70 | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | 200 | Taste | Not Available |
| Evaporation rate | Not Applicable | Explosive properties | Not Available |

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

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| Flammability | Not Applicable | Oxidising properties | Not Available |
|---------------------------|----------------|----------------------------------|----------------|
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Applicable |
| 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

Oral (rat) LD50: 25000 $\mathrm{mg/kg}^{[2]}$

oleic acid

Information on toxicological effects

| • | | | |
|-------------------------|---|---|--|
| Inhaled | Inhalation hazard is increased at higher temperatures. Although inhalation is not thought to produce harmful effects (as classified under EC Directives), the material may still produce health damage, especially where pre-existing organ (e.g. liver, kidney) damage is evident. | | |
| Ingestion | Accidental ingestion of the material may be damaging to the h | nealth of the individual. | |
| Skin Contact | Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Molten material is capable of causing burns. There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. | | |
| Eye | Limited evidence or practical experience suggests, that the m cause inflammation characterised by a temporary redness of | aterial may cause eye irritation in a substantial number of individuals. Prolonged eye contact may the conjunctiva (similar to windburn). | |
| Chronic | Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Implantation studies in rats show that paraffin oils may cause turnours. As a general rule, the highly refined paraffins are believed to contain less suspect polyaromatic hydrocarbons than less refined grades or waxes derived from napthenic base-stocks. | | |
| Leviathan Lumber Crayon | TOXICITY Not Available | IRRITATION Not Available | |
| | NOT Available | I Not Available | |
| | TOXICITY | IRRITATION | |
| kaolin | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| feldspars | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): 100 mg/24 hr-mild | |
| paraffin wax | dermal (rat) LD50: >2000 mg/kg ^[1] | Skin (rabbit): 500 mg/24 hr-mild | |
| | Oral (rat) LD50: >4500 mg/kg ^[1] | | |
| | Oral (rat) LD50: >4500 mg/kg ^[1] | | |
| | TOXICITY | IRRITATION | |
| stearic acid | Dermal (rabbit) LD50: >2000 mg/kg ^[1] | Skin (human): 75 mg/3d-l-mild | |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | Skin (rabbit):500 mg/24h-moderate | |
| | тохісіту | IRRITATION | |
| | | | |

Skin (human):15 mg/3d-l- moderate
Skin (rabbit):500 mg mild

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| | тохісіту | IRRITATION | |
|------------------------|--|--|--|
| talc | Not Available | Skin (human): 0.3 mg/3d-l mild | |
| | | | |
| sodium stearate | TOXICITY | IRRITATION | |
| | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| carbon black | Dermal (rabbit) LD50: >3000 mg/kg ^[2] | Not Available | |
| | Oral (rat) LD50: >8000 mg/kg ^[1] | | |
| | | | |
| | TOXICITY [1] | IRRITATION | |
| C.I. Pigment Blue 15 | dermal (rat) LD50: >5000 mg/kg ^[1] | [Manuf. C.G.] | |
| | Oral (rat) LD50: >10,000 mg/kg ^[2] | Eye (human): non-irritant Skin (human): non-irritant | |
| | | SAIT (Turnary, Hor-intant | |
| | TOXICITY | IRRITATION | |
| C.I. Pigment Green 7 | dermal (rat) LD50: >5000 mg/kg ^[1] | Not Available | |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | | |
| | TOXICITY | IRRITATION | |
| C.I. Pigment Red 3 | Oral (rat) LD50: >5000 mg/kg ^[2] | Eye (human): non irritant | |
| S. Frigitient Ned 3 | Stat (rat) EDOS. 20000 Highly | Skin (human): non irritant | |
| | | 1 , , | |
| | TOXICITY | IRRITATION | |
| | Inhalation (rat) LC50: >2.28 mg/l/4hr ^[1] | Skin (human): 0.3 mg /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] | | |
| | TOXICITY | IRRITATION | |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | [CCINFO-Bayer] | |
| C.I. Pigment Yellow 74 | Oral (rat) LD50: >1500 mg/kg ^[2] | Eye (human): non irritant | |
| | | Skin (human): non irritant | |
| Lamande | 1 Value obtained from Europe ECHA Positioned Substances Acu | uta tavisiti (2 * Valua abtainad from manufacti urula CDS. Unloca athanuisa anasifiad data | |
| Legend: | extracted from RTECS - Register of Toxic Effect of chemical Substa | tte toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data ances | |
| | | | |
| | | hydrocarbons which are not absorbed in the gastro-intestinal tract and in small quantity | |
| | will pass through undigested. The widespread use in cosmetic and in cosmetic surgery over many | years demonstrates the low toxicity of refined waxes and many guidelines exist for their safe | |
| | The state of the s | ects with these products. Subcutaneous deposits often referred to as paraffinoma, have er the skin but these are not normally associated with other progressive changes. | |
| DAD AFFINIWAY | Paraffin wax and microcrystalline were each administered orally as a solution in arachis oil to groups of 5 male and 5 female rats at dose levels of 1000 and | | |
| PARAFFIN WAX | 5000 g/kg bw. produced no clinical signs of toxicity during the seven day observation period and growth rates were normal. Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is | | |
| | | n above C30. With respect to the carbon chain lengths likely to be present in mineral oil, | |
| | n-paraffins may be absorbed to a greater extent that iso- or cyclo-pa The major classes of hydrocarbons have been shown to be well abs | orbed by the gastrointestinal tract in various species. In many cases, the hydrophobic | |
| | hydrocarbons are ingested in association with dietary lipids. Tumorigenic in rats | | |
| STEARIC ACID | Equivocal tumorigen by RTEC criteria | | |
| | | be by providing more membrane fluidity than monounsaturated fats (MUFAs), but they are | |
| OI EIC ACID | 1 | ome monounsaturated fatty acids (in the same way as saturated fats) may promote insulin against insulin resistance. Furthermore, one the large scale study found that increasing | |
| OLEIC ACID | monounsaturated fat and decreasing saturated fat intake could impro | ove insulin sensitivity, but only when the overall fat intake of the diet was low. Studies have t is associated with increased daily physical activity and resting energy expenditure. | |
| | y , | is associated with increased daily physical activity and resting energy expenditure. Ising inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | |
| TALO | | nage causing fluid in the lungs and lung inflammation which may lead to death within hours | |
| TALC | of inhalation. Long-term exposure can also cause a variety of respiratory symptoms. | | |
| SODIUM STEARATE | Fatty acid salts of low acute toxicity. Their potential to irritate the skin | and eyes is dependent on chain length. | |
| CARBON BLACK | Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported | | |

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Detailed analysis of molecular structure indicates that the azo colourant can split off cancer-causing arylamines. The azo linkage, a double bond between two nitrogen atoms, is considered the most unstable part of an azo dve. Bacterial mutagen Subchronic or Prechronic Exposure: Treatment of F344 rats and B6C3F1 mice with C.I. Pigment Red 3 in the diet (10, 5.0, 2.5, 1.25, 0.6 or 0.3%) for 14 and 90 days resulted in haematological alterations consistent with haemolytic anemia. Rats appeared to be more sensitive than mice to the haematological effects. Histological lesions were observed in rats and mice after exposure for 90 days. Long-term dietary administration resulted in the C.I. PIGMENT RED 3 development of tumours of the liver, skin, adrenals and Zymbal gland in rats and kidney and thyroid tumors in mice. An Ames bacterial test has given evidence of weak mutagenicity, but no chromosome effects were seen in mammalian cells in culture. Under the conditions of a 2 yr feed study, there was some evidence of carcinogenic activity of C.I. Pigment Red 3 in male F344/N rats as exhibited by increased incidences of benign pheochromocytomas of the adrenal gland. The marginal increase in the incidences of squamous cell papillomas of the skin and Zymbals gland carcinomas may have been related to C.I. Pigment Red 3 administration 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 TITANIUM DIOXIDE the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. Leviathan Lumber Crayon & KAOLIN & FELDSPARS & **TALC & SODIUM** No significant acute toxicological data identified in literature search. STEARATE & CARBON **BLACK & C.I. PIGMENT GREEN 7** for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water. Leviathan Lumber Crayon The expected acute oral toxicity of bentonite in humans is very low (LD50>15 g/kg). However, severe anterior segment inflammation, uveitis and retrocorneal & KAOLIN abscess from eye exposure were reported when bentonite had been used as a prophypaste. In a 33 day dietary (2 and 6%) and a 90 day dietary (1, 3 and 5%) studies in chickens, no changes in behaviour, overall state, clinical and biochemical parameters and electrolytic composition of the blood. The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: The adverse effects of these materials are associated with undesirable components, and The levels of the undesirable components are inversely related to the degree of processing; Leviathan Lumber Cravon Distillate base oils receiving the same degree or extent of processing will have similar toxicities; & PARAFFIN WAX ▶ The potential toxicity of residual base oils is independent of the degree of processing the oil receives. ► The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential carcinogenic and mutagenic activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. For highly and severely refined distillate base oils: Leviathan Lumber Cravon In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal & PARAFFIN WAX concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative. The following information refers to contact allergens as a group and may not be specific to this product. Leviathan Lumber Cravon Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves & C.I. PIGMENT RED 3 a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis STEARIC ACID & TALC of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS STEARIC ACID & OLEIC The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, **ACID & TITANIUM DIOXIDE** scaling and thickening of the skin The substance is classified by IARC as Group 3: **TALC & C.I. PIGMENT RED** NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing **CARBON BLACK &** TITANIUM DIOXIDE WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Acute Toxicity Carcinogenicity 0 Skin Irritation/Corrosion Reproductivity 0 Serious Eye 0 0 STOT - Single Exposure Damage/Irritation Respiratory or Skin 0 0 STOT - Repeated Exposure

> Aspiration Hazard Legend:

0

Data available but does not fill the criteria for classification

Data required to make classification available

Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

0

sensitisation

Mutagenicity

Toxicity

| Ingredient | Endpoint | Test Duration (hr) | Species | Value | Source |
|--------------|----------|--------------------|-------------------------------|----------|--------|
| stearic acid | EC50 | 48 | Crustacea | >4.8mg/L | 2 |
| stearic acid | EC50 | 72 | Algae or other aquatic plants | >0.9mg/L | 2 |

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| stearic acid | EC50 | 504 | Crustacea | >0.22mg/L | 2 |
|------------------------|------|-----|-------------------------------|------------|---|
| stearic acid | NOEC | 504 | Crustacea | >0.22mg/L | 2 |
| oleic acid | LC50 | 96 | Fish | 205mg/L | 4 |
| carbon black | LC50 | 96 | Fish | >100mg/L | 2 |
| carbon black | EC50 | 48 | Crustacea | >100mg/L | 2 |
| carbon black | EC50 | 96 | Algae or other aquatic plants | 95mg/L | 2 |
| carbon black | EC50 | 384 | Crustacea | 4.9mg/L | 2 |
| carbon black | NOEC | 720 | Fish | 17mg/L | 2 |
| C.I. Pigment Blue 15 | LC50 | 96 | Fish | ca.46mg/L | 2 |
| C.I. Pigment Blue 15 | EC50 | 48 | Crustacea | >100mg/L | 2 |
| C.I. Pigment Blue 15 | EC50 | 72 | Algae or other aquatic plants | >100mg/L | 2 |
| C.I. Pigment Blue 15 | EC50 | 504 | Crustacea | >1mg/L | 2 |
| C.I. Pigment Blue 15 | NOEC | 504 | Crustacea | >=1mg/L | 2 |
| C.I. Pigment Green 7 | LC50 | 96 | Fish | ca.46mg/L | 2 |
| C.I. Pigment Green 7 | EC50 | 48 | Crustacea | >100mg/L | 2 |
| C.I. Pigment Green 7 | EC50 | 72 | Algae or other aquatic plants | >100mg/L | 2 |
| C.I. Pigment Green 7 | EC50 | 504 | Crustacea | >1mg/L | 2 |
| C.I. Pigment Green 7 | NOEC | 504 | Crustacea | >=1mg/L | 2 |
| C.I. Pigment Red 3 | LC50 | 96 | Fish | 0.082mg/L | 3 |
| C.I. Pigment Red 3 | EC50 | 48 | Crustacea | >100mg/L | 2 |
| C.I. Pigment Red 3 | EC50 | 96 | Algae or other aquatic plants | 0.018mg/L | 3 |
| C.I. Pigment Red 3 | EC50 | 24 | Crustacea | >100mg/L | 2 |
| C.I. Pigment Red 3 | NOEC | 72 | Algae or other aquatic plants | >0.006mg/L | 2 |
| titanium dioxide | LC50 | 96 | Fish | 9.214mg/L | 3 |
| titanium dioxide | EC50 | 48 | Crustacea | 1.23mg/L | 2 |
| titanium dioxide | EC50 | 72 | Algae or other aquatic plants | 5.83mg/L | 4 |
| titanium dioxide | EC50 | 504 | Crustacea | 0.46mg/L | 2 |
| titanium dioxide | NOEC | 336 | Fish | 0.089mg/L | 4 |
| C.I. Pigment Yellow 74 | LC50 | 96 | Fish | 12.405mg/L | 3 |
| C.I. Pigment Yellow 74 | EC50 | 96 | Algae or other aquatic plants | 25.568mg/L | 3 |
| C.I. Pigment Yellow 74 | EC50 | 384 | Crustacea | 3.044mg/L | 3 |
| C.I. Pigment Yellow 74 | NOEC | 504 | Crustacea | >1mg/L | 2 |

 $Harmful\ to\ aquatic\ organisms,\ may\ cause\ long-term\ adverse\ effects\ in\ the\ aquatic\ environment.$

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

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

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

For Silica:

Environmental Fate: Most documentation on the fate of silica in the environment concerns dissolved silica, in the aquatic environment, regardless of origin, (man-made or natural), or structure, (crystalline or amorphous).

Terrestrial Fate: Silicon makes up 25.7% of the Earth \odot s crust, by weight, and is the second most abundant element, being exceeded only by oxygen. Silicon is not found free in nature, but occurs chiefly as the oxide and as silicates. Once released into the environment, no distinction can be made between the initial forms of silica.

for lubricating oil base stocks:

Vapor Pressure Vapor pressures of lubricating base oils are reported to be negligible. In one study, the experimentally measured vapour pressure of a solvent-dewaxed heavy paraffinic distillate base oil was 1.7 x 10exp-4 Pa. Since base oils are mixtures of C15 to C50 paraffinic, naphthenic, and aromatic hydrocarbon isomers, representative components of those structures were selected to calculate a range of vapor pressures. The estimated vapor pressure values for these selected components of base oils ranged from 4.5 x 10exp-1 Pa to 2 x 10exp-13Pa.

For cooper:

Atmospheric Fate - Copper is unlikely to accumulate in the atmosphere due to a short residence time for airborne copper aerosols. Airborne coppers, however, may be transported over large distances. Air Quality Standards: no data available.

Aquatic Fate: Toxicity of copper is affected by pH and hardness of water.

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested

For copper: Ecotoxicity - Significant effects are expected on various species of microalgae, some species of macroalgae, and a range of invertebrates, including crustaceans, gastropods and sea urchins. Copper is moderately toxic to crab and their larvae and is highly toxic to gastropods (mollusks, including oysters, mussels and clams). In fish, the acute lethal concentrations of copper depends both on test species and exposure conditions. Waters with high concentrations of copper can have significant effects on diatoms and sensitive invertebrates, notably cladocerans (water fleas).

For Copper: Typical foliar levels of copper are: Uncontaminated soils (0.3-250 mg/kg); Contaminated soils (150-450 mg/kg); Mining/smelting soils (6.1-25 mg/kg80 mg/kg300 mg/kg). Terrestrial Fate: Plants - Generally, vegetation reflects soil copper levels in its foliage. This is dependent upon the bioavailability of copper and the physiological requirements of species concerned. Crops are often more sensitive to copper than the native flora.

For Organic Pigments:

Environmental Fate: Organic pigments are highly persistent in natural environments.

Atmospheric Fate: The chemical processes underlying breakdown of organic pigments through light or atmospheric conditions are difficult to clarify. Atmospheric contaminants, such as peroxides, which appear as the products of radiation, frequently start the degradation process.

Terrestrial Fate: Color pigments are protected from leaching into groundwater by the plastics, paints and inks that make up the final products incorporating color pigments.

NOTE: Because of similarities in structure to thalidomide, concerns have been raised about the potential of all phthalimides (the basic building block of phthalocyanine) to cause malformation of a foetus in animals exposed to it. Animal studies, in part, appear to support this proposition. Phthalocyanine dyes are probably not biodegradable. Reversible reduction and decolourisation occurs under anaerobic conditions.

For Bromide:

Environmental Fate: Bromide ions may be introduced to the environment after the breakdown of various salts and complexes or after the degradation of organic compounds that contain carbon bonded to bromine. Bromides may also affect the growth of micro-organisms and have been used for this purpose in industry. Bromides in drinking water are occasionally subject to disinfection

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processes involving ozone of chlorine. Bromide may be oxidize to produce hypobromous acid which in turn may react with natural organic matter to form brominated compounds.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------------------|-------------------------|------------------|
| stearic acid | LOW | LOW |
| oleic acid | LOW | LOW |
| C.I. Pigment Blue 15 | HIGH | HIGH |
| C.I. Pigment Red 3 | HIGH | HIGH |
| titanium dioxide | HIGH | HIGH |
| C.I. Pigment Yellow 74 | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------------------|-----------------------|
| stearic acid | LOW (LogKOW = 8.23) |
| oleic acid | LOW (LogKOW = 7.7294) |
| C.I. Pigment Blue 15 | LOW (BCF = 11) |
| C.I. Pigment Green 7 | LOW (BCF = 74) |
| C.I. Pigment Red 3 | LOW (BCF = 2.9) |
| titanium dioxide | LOW (BCF = 10) |
| C.I. Pigment Yellow 74 | LOW (LogKOW = 2.9756) |

Mobility in soil

| Ingredient | Mobility |
|------------------------|-------------------------|
| stearic acid | LOW (KOC = 11670) |
| oleic acid | LOW (KOC = 11670) |
| C.I. Pigment Blue 15 | LOW (KOC = 10000000000) |
| C.I. Pigment Red 3 | LOW (KOC = 69830) |
| titanium dioxide | LOW (KOC = 23.74) |
| C.I. Pigment Yellow 74 | LOW (KOC = 88.95) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Product / Packaging disposal
- 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)
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required

| Marine Pollutant | NO |
|------------------|----------------|
| HAZCHEM | Not Applicable |

Land transport (ADG): 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

KAOLIN(1332-58-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

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FELDSPARS(68476-25-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

PARAFFIN WAX(8002-74-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

STEARIC ACID(57-11-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

OLEIC ACID(112-80-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

TALC(14807-96-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Mon

Australia Exposure Standards

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

SODIUM STEARATE(822-16-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

 $\label{thm:local_problem} \mbox{Australia Hazardous Substances Information System - Consolidated Lists}$

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

C.I. PIGMENT BLUE 15(147-14-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

C.I. PIGMENT GREEN 7(1328-53-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monograph

C.I. PIGMENT RED 3(2425-85-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

TITANIUM DIOXIDE(13463-67-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

C.I. PIGMENT YELLOW 74(6358-31-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

| National Inventory | Status |
|----------------------------------|---|
| Australia - AICS | Υ |
| Canada - DSL | N (feldspars) |
| Canada - NDSL | N (talc; C.I. Pigment Green 7; C.I. Pigment Yellow 74; kaolin; sodium stearate; C.I. Pigment Blue 15; carbon black; C.I. Pigment Red 3; paraffin wax; stearic acid; oleic acid) |
| China - IECSC | Υ |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | N (kaolin; feldspars; stearic acid) |
| Korea - KECI | Υ |
| New Zealand - NZIoC | Υ |
| 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

Other information

Ingredients with multiple cas numbers

| Name | CAS No |
|----------------------|--|
| feldspars | 68476-25-5, 12244-10-9 |
| paraffin wax | 8002-74-2, 12704-91-5, 105054-93-1, 105845-08-7, 115251-23-5, 115251-24-6, 12704-92-6, 12795-75-4, 160936-34-5, 37220-23-8, 37339-80-3, 39355-22-1, 39373-78-9, 51331-35-2, 54692-42-1, 57572-43-7, 57608-84-1, 58057-11-7, 64742-43-4, 64742-51-4, 68607-08-9, 68649-50-3, 70431-26-4, 72993-88-5, 72993-89-6, 72993-90-9, 8035-62-9, 8044-02-8, 8044-79-9, 9083-41-4, 92045-74-4 |
| sodium stearate | 822-16-2, 68309-30-8 |
| C.I. Pigment Green 7 | 1328-53-6, 66085-74-3, 1328-45-6, 64333-62-6, 67053-86-5, 72779-62-5, 73560-40-4, 81180-93-0, 85256-45-7, 14832-14-5 |
| C.I. Pigment Red 3 | 2425-85-6, 12238-48-1, 12240-01-6, 39310-30-0, 78690-69-4 |

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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.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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