

# **Peak Blue Roof Coating F46778**

### **ICP Construction**

Version No: **1.2**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **04/19/2017** Print Date: **04/19/2017** S.GHS.USA.EN

### **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	Peak Blue Roof Coating F46778
Synonyms	Not Available
Other means of identification	Not Available

#### Recommended use of the chemical and restrictions on use

Relevant identified uses Roof Coating

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

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

# Emergency phone number

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

### **SECTION 2 HAZARD(S) IDENTIFICATION**

# Classification of the substance or mixture

Classification

Germ cell mutagenicity Category 1B, Carcinogenicity Category 1A, Reproductive Toxicity Category 1B, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3

### Label elements

GHS label elements



SIGNAL WORD

DANGER

### Hazard statement(s)

H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

# Hazard(s) not otherwise specified

Not Applicable

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.

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P281	Use personal protective equipment as required.		
P273	Avoid release to the environment.		
Precautionary statement(s)	) Response		
P308+P313	IF exposed or concerned: Get medical advice/attention.		
Precautionary statement(s)	Storage		
P405	Store locked up.		
Precautionary statement(s) Disposal			
P501	Dispose of contents/container in accordance with local regulations.		

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name			
1317-70-0		titanium dioxide (anatase)			
7632-00-0	<1	sodium nitrite			
68412-54-4	<1	nonylphenol ethoxylate, branched			
7320-34-5	<1	potassium pyrophosphate			
7664-41-7	<1	ammonia anhydrous liquefied			
330-54-1	<1	diuron			
1332-58-7	<1	<u>kaolin</u>			
10605-21-7	<1	<u>carbendazim</u>			
1328-53-6	<1	C.I. Pigment Green 7			
1333-86-4	<1	carbon black			

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# **SECTION 4 FIRST-AID MEASURES**

# Description of first aid measures

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.
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 diuron:

- ▶ Symptomatic and supportive action is indicated.
- ▶ Methaemoglobinaemia is possible
- if compound is hydrolysed in vivo to aniline.
- Methaemoglobinaemia causes cyanosis. Reversion of methaemoglobin to haemoglobin is spontaneous after removal from exposure, so moderate degrees of cyanosis need be treated only by supportive measures such as bed rest and oxygen inhalation.
- Fig. Thorough cleansing of the entire contaminated area of the body, including the scalp and nails is of the utmost importance.

# **SECTION 5 FIRE-FIGHTING MEASURES**

# **Extinguishing media**

- Jets of water.
- ▶ Water spray or fog.
- Foam.

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- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.					
Special protective equipm	ent 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> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>					
Fina/Fundacion Honord	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>					

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

May emit poisonous fumes. May emit corrosive fumes.

See section 8

### **Environmental precautions**

Fire/Explosion Hazard

See section 12

### Methods and material for containment and cleaning up

	Clean up all spills immediately.
	Avoid breathing vapours and contact with skin and eyes.
Minor Spills	► Control personal contact with the substance, by using protective equipment.
millor Opilis	Contain and absorb spill with sand, earth, inert material or vermiculite.
	▶ Wipe up.
	▶ Place in a suitable, labelled container for waste disposal.
	► Clear area of personnel and move upwind.
	► Alert Fire Brigade and tell them location and nature of hazard.
	► Wear full body protective clothing with breathing apparatus.
	▶ Prevent, by all means available, spillage from entering drains or water courses.
	► Consider evacuation (or protect in place).
	▶ No smoking, naked lights or ignition sources.
	► Increase ventilation.
Major Spills	▶ Stop leak if safe to do so.
	▶ Water spray or fog may be used to disperse / absorb vapour.
	► Contain or absorb spill with sand, earth or vermiculite.
	Collect recoverable product into labelled containers for recycling.
	▶ Collect solid residues and seal in labelled drums for disposal.
	▶ Wash area and prevent runoff into drains.
	<ul> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> </ul>
	► If contamination of drains or waterways occurs, advise emergency services.
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke Keep containers securely sealed when not in use. Safe handling Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. ▶ DO NOT allow clothing wet with material to stay in contact with skin Other information

# Conditions for safe storage, including any incompatibilities

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

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Storage incompatibility None known

# 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 (anatase)	Titanium dioxide	15 mg/m3	Not Available	Not Available	Total dust	
US ACGIH Threshold Limit Values (TLV)	titanium dioxide (anatase)	Titanium dioxide	10 mg/m3	Not Available	Not Available	TLV® Basis: LRT irr	
US NIOSH Recommended Exposure Limits (RELs)	titanium dioxide (anatase)	Rutile, Titanium oxide, Titanium peroxide	Not Available	Not Available	Not Available	Ca See Appendix A	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ammonia anhydrous liquefied	Ammonia	35 mg/m3 / 50 ppm	Not Available	Not Available	Not Available	
US ACGIH Threshold Limit Values (TLV)	ammonia anhydrous liquefied	Ammonia	25 ppm	35 ppm	Not Available	TLV® Basis: Eye dam; URT irr	
US NIOSH Recommended Exposure Limits (RELs)	ammonia anhydrous liquefied	Anhydrous ammonia, Aqua ammonia, Aqueous ammonia [Note: Often used in an aqueous solution.]	18 mg/m3 / 25 ppm	27 mg/m3 / 35 ppm	Not Available	Not Available	
US ACGIH Threshold Limit Values (TLV)	diuron	Diuron	10 mg/m3	Not Available	Not Available	TLV® Basis: URT irr	
US NIOSH Recommended Exposure Limits (RELs)	diuron	3-(3,4-Dichlorophenyl)-1,1-dimethylurea; Direx®; Karmex®	10 mg/m3	Not Available	Not Available	Not Available	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	kaolin	Kaolin / Kaolin - Respirable fraction	15 mg/m3 / 5 mg/m3	Not Available	Not Available	Total dust;(IGE)	
US OSHA Permissible Exposure Levels (PELs) - Table Z3	kaolin	Silicates: Mica / Silicates: Soapstone / Silicates: Talc / Silicates: Tremolite, asbestiforms	0.1 f/cc / 20 mppcf	Not Available	Not Available	(less than 1% crystalline silica) / (containing asbestos) Use asbestos limit;(less than 1% crystalline silica) / (see 29 CFR 1910.1001);(less than 1% crystalline silica)	
US ACGIH Threshold Limit Values (TLV)	kaolin	Kaolin	2 mg/m3	Not Available	Not Available	TLV® Basis: Pneumoconiosis	
US NIOSH Recommended Exposure Limits (RELs)	kaolin	China clay, Clay, Hydrated aluminum silicate, Hydrite, Porcelain clay [Note: Main constituent of Kaolin is Kaolinite (Al2Si2O5(OH)4).]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	C.I. Pigment Green 7	Copper - Fume / Copper	0.1 mg/m3 / 1 mg/m3	Not Available	Not Available	(as Cu) / (as Cu);Dusts and mists	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	C.I. Pigment Green 7	Chromium (VI) compounds	0.005 mg/m3	Not Available	Not Available	See 1910.1026;See Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in §1910.1026 is stayed or is otherwise not in effect.	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Not Available	
US ACGIH Threshold Limit Values (TLV)	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	TLV® Basis: Bronchitis	
US NIOSH Recommended Exposure Limits (RELs)	carbon black	Acetylene black, Channel black, Furnace black, Lamp black, Thermal black	3.5 mg/m3	Not Available	Not Available	Ca See Appendix A See Appendix C	

# EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
titanium dioxide (anatase)	Titanium oxide; (Titanium dioxide)	30 mg/m3	330 mg/m3	2,000 mg/m3
sodium nitrite	Sodium nitrite	6.4 mg/m3	71 mg/m3	240 mg/m3
nonylphenol ethoxylate, branched	Nonylphenoxypolyethoxyethanol	30 mg/m3	330 mg/m3	2,000 mg/m3
potassium pyrophosphate	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	61 mg/m3	680 mg/m3	1,200 mg/m3
ammonia anhydrous liquefied	Ammonia	Not Available	Not Available	Not Available
carbon black	Carbon black	9 mg/m3	99 mg/m3	590 mg/m3

Ingredient	Original IDLH	Revised IDLH
titanium dioxide (anatase)	N.E. mg/m3 / N.E. ppm	5,000 mg/m3
sodium nitrite	Not Available	Not Available

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nonylphenol ethoxylate, branched	Not Available	Not Available
potassium pyrophosphate	Not Available	Not Available
ammonia anhydrous liquefied	500 ppm	300 ppm
diuron	Not Available	Not Available
kaolin	Not Available	Not Available
carbendazim	Not Available	Not Available
C.I. Pigment Green 7	Not Available	Not Available
carbon black	N.E. mg/m3 / N.E. ppm	1,750 mg/m3

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

# Appropriate engineering controls

- ▶ Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.
- Work should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.
- Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.
- Open-vessel systems are prohibited.
- ▶ Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.
- Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should be introduced in sufficient volume to maintain correct operation of the local exhaust system.
- For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- · Except for outdoor systems, regulated areas should be maintained under negative pressure (with respect to non-regulated areas).
- Local exhaust ventilation requires make-up air be supplied in equal volumes to replaced air.
- Laboratory hoods must be designed and maintained so as to draw air inward at an average linear face velocity of 0.76 m/sec with a minimum of 0.64 m/sec. Design and construction of the fume hood requires that insertion of any portion of the employees body, other than hands and arms, be disallowed.

# Personal protection









# Eve 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. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

### Skin protection

### See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and

### dexterity

### Hands/feet protection

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

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	Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential     Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	<ul> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and furnes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]</li> <li>Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.</li> <li>Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>Pv.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>
Thermal hazards	Not Available

### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Text		
Physical state	liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<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

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

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	Nevertheless good hygiene practice requires that exposure	ure he kent to a minimum and t	hat suitable control meas	ures he used in an occupational setting
Ingestion	Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating			
Skin Contact	animal or human evidence.  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.  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			
Eye	of the material and ensure that any external damage is sui Although the liquid is not thought to be an irritant (as class		t contact with the eye ma	y produce transient discomfort characterised
Chronic	by tearing or conjunctival redness (as with windburn).  There is sufficient evidence to suggest that this material of Based on experiments and other information, there is amp. Ample evidence exists from experimentation that reduced Chronic effects of exposure to diuron may include skin irrithyroid effects; red blood cell destruction, or reduction of Benzimidazoles are shown to impair embryonic developm body may also cause cancer and genetic defects by inter-	ole evidence to presume that e human fertility is directly cause itation, abnormal pigmentation the blood's oxygen carrying ca nent and cause genetic abnorr	xposure to this material c ed by exposure to the mat i, growth retardation, blur apacity causing bluish dis nalities (often errors in the	erial. ring of vision, abnormal liver, spleen and colouration and breathlessness.
	TOXICITY	IDDIT	ATION	
Peak Blue Roof Coating F46778	Not Available		/ailable	
	TOXICITY			IRRITATION
	Inhalation (rat) LC50: >2.28 mg/l/4hr <sup>[1]</sup>			Not Available
	Inhalation (rat) LC50: >3.56 mg/l/4hr <sup>[1]</sup>			
titanium dioxide (anatase)	Inhalation (rat) LC50: >6.82 mg/l/4hr <sup>[1]</sup>			
manam aromas (anamas)	Inhalation (rat) LC50: 3.43 mg/l/4hr <sup>[1]</sup>			
	Inhalation (rat) LC50: 5.09 mg/V4hr <sup>[1]</sup>			
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>			
	Oral (fat) ED30. >2000 Hig/kg			
	TOVICITY		IDDITATION	
	TOXICITY		IRRITATION	Mbr. mild
sodium nitrite	Inhalation (rat) LC50: 0.0055 mg/L/4hr <sup>[2]</sup>		Eye (rabbit): 500 mg/2	(41) - 11)
	Oral (rat) LD50: 157.9 mg/kg <sup>[2]</sup>			
nonylphenol ethoxylate,	TOXICITY		IRRITATION	
branched	Dermal (rabbit) LD50: 2640 mg/kg <sup>[1]</sup>			Eye : Severe
	Oral (rat) LD50: >15 mg/kg <sup>[1]</sup>			Skin : Severe
	TOXICITY			IRRITATION
potassium pyrophosphate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>		Not Available	
	Oral (rat) LD50: >300-<2000 mg/kg> <sup>[1]</sup>			
	TOXICITY			IRRITATION
	dermal (rat) LD50: 4.84 mg/L <sup>[2]</sup>		Not Available	
ammonia anhydrous liquefied	Inhalation (rat) LC50: 2000 ppm/4hr <sup>[2]</sup>			
	Inhalation (rat) LC50: 9500 ppm/1hr <sup>[2]</sup>	Inhalation (rat) LC50: 9500 ppm/1hr <sup>[2]</sup>		
	Oral (rat) LD50: 350 mg/kg <sup>[1]</sup>			
	TOXICITY			IRRITATION
diuron	dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup>			Not Available
	Oral (rat) LD50: 1000 mg/kg <sup>[2]</sup>			
kaolin	TOXICITY  Net Available		ATION	
	Not Available	Not A	vailable	
	TOWART		IDDITATION	
carbendazim	TOXICITY  dermal (rat) LD50: 2000 mg/kg <sup>[2]</sup>		IRRITATION  Eye (rabbit): non-irritatin	

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Oral (rat) LD50: 6400 mg/kg<sup>[2]</sup> Skin (rabbit): non-irritating \* TOXICITY IRRITATION dermal (rat) LD50: >5000 mg/kg<sup>[1]</sup> Not Available C.I. Pigment Green 7 Oral (rat) LD50: >2000 mg/kg<sup>[1]</sup> TOXICITY IRRITATION Dermal (rabbit) LD50: >3000 mg/kg<sup>[2]</sup> carbon black Not Available Oral (rat) LD50: >8000 mg/kg<sup>[1]</sup> 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data Legend: extracted from RTECS - Register of Toxic Effect of chemical Substances 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 (ANATASE) the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. SODIUM NITRITE Tumorigenic - Carcinogenic by RTECS criteria. Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, and other cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that volumes well above a reasonable intake level would have to occur to produce any toxic response. NONYLPHENOL Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse ETHOXYLATE, BRANCHED reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma **POTASSIUM** No data available. Data for sodium analogue only, tetrasodium pyrophosphate **PYROPHOSPHATE** Diuron is absorbed readily through the gut and lungs while uptake through the skin is more limited. It is slightly toxic to mammals but juveniles are more susceptible than adults(18). The oral LD50 in rats is 3-4 g/kg and the dermal LD50 is > 2 g/kg(19). DIURON Note: Equivocal animal tumorigenic agent by RTECS criteria. NOTE: This substance may contain impurities (tetrachlorazobenzene and tetrachloroazoxybenzene). Maximum impurity levels are proscribed under various jurisdictions ADI: 0.006 mg/kg/day NOEL: 0.625 mg/kg/day Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallisation of vitreous volcanic ashes that were deposited in water. KAOL IN The expected acute oral toxicity of bentonite in humans is very low (LD50>15 g/kg). However, severe anterior segment inflammation, uveitis and retrocorneal abscess from eye exposure were reported when bentonite had been used as a prophypaste Benomyl (a precursor of carbendazim) sensitises skin in humans. Benomyl and carbendazim represent a very low risk for acute poisoning in humans. Carbendazim has low acute toxicity and is excretedin the urine. [ \* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection CARBENDAZIM Council1 Intraperitoneal (Rat, adult male) LD50: 7320 mg/kg \* Intraperitoneal (Rat, adult female) LD50: 15000 mg/kg \* Inhalation LC50 (4 h) for rats, rabbits, guinea pigs or cats no effect with suspension (10 g/l water). \* NOEL (2 y) for dogs 300 mg/kg diet, corresponding to 6-7 mg/kg b.w. ADI 0.01 mg/kg b.w. \* Toxicity Class WHO III;EPA IV **CARBON BLACK** WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported POTASSIUM 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 **PYROPHOSPHATE &** reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis **AMMONIA ANHYDROUS** of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes LIQUEFIED to hours of a documented exposure to the irritant. AMMONIA ANHYDROUS **LIQUEFIED & DIURON & KAOLIN & C.I. PIGMENT** No significant acute toxicological data identified in literature search. **GREEN 7 & CARBON** BLACK **Acute Toxicity** Carcinogenicity 0 Skin Irritation/Corrosion Reproductivity Serious Eve 0 STOT - Single Exposure 0 Damage/Irritation Respiratory or Skin 0 0 STOT - Repeated Exposure sensitisation

Aspiration Hazard

Legend:

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

– Data available to make classification

0

O – Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

Mutagenicity

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Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source

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### Peak Blue Roof Coating F46778

titanium dioxide (anatase)	LC50	96	Fish	9.214mg/L	3
titanium dioxide (anatase)	EC50	48	Crustacea	>10mg/L	2
itanium dioxide (anatase)	EC50	72	Algae or other aquatic plants	5.83mg/L	4
itanium dioxide (anatase)	EC20	72	Algae or other aquatic plants	1.81mg/L	4
itanium dioxide (anatase)	NOEC	336	Fish	0.089mg/L	4
odium nitrite	LC50	96	Fish	0.048mg/L	4
odium nitrite	EC50	48	Crustacea	ca.12.5100mg/L	1
odium nitrite	EC50	96	Algae or other aquatic plants	12.537mg/L	3
odium nitrite	EC50	216	Crustacea	1.8mg/L	4
odium nitrite	NOEC	2	Fish	0.02mg/L	4
nonylphenol ethoxylate, oranched	LC50	96	Fish	0.136mg/L	2
onylphenol ethoxylate, ranched	NOEC	2184	Fish	ca.0.006mg/L	2
mmonia anhydrous quefied	LC50	96	Fish	0.068mg/L	2
mmonia anhydrous quefied	EC50	48	Crustacea	0.179mg/L	5
mmonia anhydrous quefied	EC50	96	Algae or other aquatic plants	311.661mg/L	3
mmonia anhydrous quefied	EC50	1440	Crustacea	0.016mg/L	5
mmonia anhydrous iquefied	NOEC	Not Applicable	Fish	0.0015mg/L	5
liuron	LC50	96	Fish	0.5mg/L	4
liuron	EC50	48	Crustacea	1.4mg/L	1
liuron	EC50	72	Algae or other aquatic plants	0.00055mg/L	4
iuron	BCF	792	Algae or other aquatic plants	0.159mg/L	4
iuron	EC50	336	Algae or other aquatic plants	0.00035mg/L	4
liuron	NOEC	336	Algae or other aquatic plants	0.0000005mg/L	4
arbendazim	LC50	96	Fish	0.007mg/L	4
arbendazim	EC50	48	Crustacea	0.02mg/L	4
arbendazim	EC50	96	Algae or other aquatic plants	3.945mg/L	3
arbendazim	EC50	24	Crustacea	0.0035mg/L	4
arbendazim	NOEC	480	Crustacea	<0.0031mg/L	4
I. Pigment Green 7	EC0	24	Crustacea	=500mg/L	1
arbon black	LC50	96	Fish	=1000mg/L	1
arbon black	EC50	24	Crustacea	>5600mg/L	1
arbon black	NOEC	96	Fish	=1000mg/L	1
Legend:	(QSAR) - Aquatic Toxi		Registered Substances - Ecotoxicological In Cotox database - Aquatic Toxicity Data 5. El Centration Data 8. Vendor Data		

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

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

For Diuron: Vapor pressure:  $6.90 \times 10-8 \text{ mm Hg}$  (25 C); Henry's law constant:  $5.10 \times 10-10 \text{ atm m3 mol-}1$ .

Atmospheric Fate: Diuron is non-volatile in the atmosphere and is unlikely to be dispersed over large areas. Diuron has a low tendency to volatilize from water or moist soils. Volatilization is insignificant except when diuron is exposed on the soil surface for several days or weeks under hot, dry conditions. Photolysis is generally not a principal route of diuron degradation in aqueous systems

Terrestrial Fate: Soil - Microbial degradation is the primary means of diuron dissipation from soil. Tetrachloroazobenzene (TCAB) and tetrachloroazoxybenzene (TCAOB) sorb very strongly to soils and are not likely to leach. Diuron leaching is greatest in soils low in organic matter and soils with high permeability to water, such as coarse soils. Diuron is moderately to highly persistent in soils. The average field half-life is 90 days; however, half-lives are highly variable. Photodegradation is not considered a primary dissipation route, but losses can be significant if diuron remains on the soil surface for several days or weeks. Diuron is mobile in soil and has a relatively low tendency to sorb to soils and sediments. Plants - Residues, at levels toxic to plants, generally dissipate within a season when applied at low selective rates. At higher application rates, residues may persist for more than one year. Diuron is readily absorbed through the root system of plants and less readily through the leaves and stems. Diuron inhibits plant photosynthesis.

Aquatic Fate: Photolysis is not a principal route for degradation in aqueous systems. Diuron is both mobile and relatively persistent in aqueous systems, and is prone to off-site movement in surface runoff and migration to ground water. Microbes are the primary agents in the degradation of diuron in aquatic environments. Reductive dechlorination of the product has been observed in anaerobic pond sediments.

Ecotoxicity: Diuron is slightly toxic to bobwhite quail and practically nontoxic to mallard duck. Diuron is also slightly toxic to bluegill sunfish and moderately toxic to rainbow trout and sheepshead minnow. Diuron is highly toxic to Daphnia magna water fleas but not acutely toxic to honey bees. Diuron has been attributed to unnatural shell thickening in the Pacific oyster. Little tissue storage in mammals is anticipated. Diuron is toxic to fish and aquatic invertebrates.

DO NOT discharge into sewer or waterways

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide (anatase)	HIGH	HIGH
sodium nitrite	LOW	LOW

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ammonia anhydrous liquefied	LOW	LOW
diuron	HIGH	HIGH
carbendazim	HIGH	HIGH

#### Bioaccumulative potential

Ingredient	Bioaccumulation
titanium dioxide (anatase)	LOW (BCF = 10)
sodium nitrite	LOW (LogKOW = 0.0564)
ammonia anhydrous liquefied	LOW (LogKOW = 0.229)
diuron	LOW (BCF = 14)
carbendazim	LOW (BCF = 3.5)
C.I. Pigment Green 7	LOW (BCF = 74)

### Mobility in soil

Ingredient	Mobility
titanium dioxide (anatase)	LOW (KOC = 23.74)
sodium nitrite	LOW (KOC = 23.74)
ammonia anhydrous liquefied	LOW (KOC = 14.3)
diuron	LOW (KOC = 136)
carbendazim	LOW (KOC = 175.8)

### **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:

- Fig ontainer can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- Reuse
- Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- 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 licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed 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

Product / Packaging

disposal

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 (ANATASE)(1317-70-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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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  $\ensuremath{\mathsf{US}}$  - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US - California Permissible Exposure Limits for Chemical Contaminants Contaminants US - California Proposition 65 - Carcinogens US - Washington Permissible exposure limits of air contaminants US - Hawaii Air Contaminant Limits US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Idaho - Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US - Massachusetts - Right To Know Listed Chemicals US ACGIH Threshold Limit Values (TLV) - Carcinogens US - Michigan Exposure Limits for Air Contaminants US NIOSH Recommended Exposure Limits (RELs) US - Minnesota Permissible Exposure Limits (PELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Oregon Permissible Exposure Limits (Z-1) US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk US - Pennsylvania - Hazardous Substance List Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity US - Rhode Island Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# SODIUM NITRITE(7632-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US CWA (Clean Water Act) - List of Hazardous Substances
Monographs	US EPCRA Section 313 Chemical List
US - Massachusetts - Right To Know Listed Chemicals	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Pennsylvania - Hazardous Substance List	

### NONYLPHENOL ETHOXYLATE, BRANCHED(68412-54-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### POTASSIUM PYROPHOSPHATE(7320-34-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

### AMMONIA ANHYDROUS LIQUEFIED(7664-41-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Passenger and Cargo Aircraft	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Alaska Limits for Air Contaminants	Contaminants
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US - Washington Permissible exposure limits of air contaminants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
(CRELs)	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US - Idaho - Limits for Air Contaminants	US CWA (Clean Water Act) - List of Hazardous Substances
US - Massachusetts - Right To Know Listed Chemicals	US EPCRA Section 313 Chemical List
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US SARA Section 302 Extremely Hazardous Substances
US - Pennsylvania - Hazardous Substance List	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
US - Rhode Island Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### DIURON(330-54-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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 Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - California Proposition 65 - Carcinogens	Contaminants
US - Hawaii Air Contaminant Limits	US - Washington Permissible exposure limits of air contaminants
US - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV)
US - Michigan Exposure Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Minnesota Permissible Exposure Limits (PELs)	US CWA (Clean Water Act) - List of Hazardous Substances
US - Pennsylvania - Hazardous Substance List	US EPCRA Section 313 Chemical List
US - Rhode Island Hazardous Substance List	US NIOSH Recommended Exposure Limits (RELs)
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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

US - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Hawaii Air Contaminant Limits	Contaminants
US - Idaho - Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - Michigan Exposure Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Minnesota Permissible Exposure Limits (PELs)	US ACGIH Threshold Limit Values (TLV)
US - Oregon Permissible Exposure Limits (Z-1)	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Pennsylvania - Hazardous Substance List	US NIOSH Recommended Exposure Limits (RELs)
US - Rhode Island Hazardous Substance List	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US OSHA Permissible Exposure Levels (PELs) - Table Z3
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### CARBENDAZIM(10605-21-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

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

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Rhode Island Hazardous Substance List US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Causing Reproductive Toxicity Contaminants US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) 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 - Carcinogens US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - California Proposition 65 - Reproductive Toxicity US CWA (Clean Water Act) - Priority Pollutants US - Hawaii Air Contaminant Limits US CWA (Clean Water Act) - Toxic Pollutants US - Idaho - Limits for Air Contaminants US EPCRA Section 313 Chemical List US - Michigan Exposure Limits for Air Contaminants US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogen US - Minnesota Permissible Exposure Limits (PELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Rhode Island Hazardous Substance List
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 Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - California Proposition 65 - Carcinogens	Contaminants
US - Hawaii Air Contaminant Limits	US - Washington Permissible exposure limits of air contaminants
US - Idaho - Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV)
US - Michigan Exposure Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US OSHA Permissible Exposure Levels (PELs) - Table Z1
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 - Pennsylvania - Hazardous Substance List	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### **Federal Regulations**

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SECTION 311/312 HAZARD CATEGORIES

US - Pennsylvania - Hazardous Substance List

Immediate (acute) health hazard	No
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)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Sodium nitrite	100	45.4
Ammonia	100	45.4
Diuron	100	45.4
Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	10	4.54

# 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), Diuron, Chromium (hexavalent compounds), Carbon black (airborne, unbound particles of respirable size) Listed

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (C.I. Pigment Green 7; kaolin; diuron; carbendazim; sodium nitrite; ammonia anhydrous liquefied; potassium pyrophosphate; carbon black; nonylphenol ethoxylate, branched)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (kaolin; nonylphenol ethoxylate, branched)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Y

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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 (anatase)	1317-70-0, 13463-67-7
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

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

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