

# Everlife WB (HG)-Wrought Iron Black F52104

### **ICP Construction**

Version No: 2.3 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Issue Date: **03/02/2017** Print Date: **03/02/2017** S.GHS.USA.EN

### **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	Everlife WB (HG)-Wrought Iron Black F52104
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses Paint

# 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

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

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

# Classification of the substance or mixture

Classification | Skin Sensitizer Category 1, Carcinogenicity Category 1A, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2

# Label elements

**GHS** label elements







SIGNAL WORD

DANGER

# Hazard statement(s)

H317	May cause an allergic skin reaction.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

### Hazard(s) not otherwise specified

Not Applicable

# Precautionary statement(s) Prevention

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

Chemwatch: 9-352356 Page 2 of 14 Issue Date: 03/02/2017

Version No: 2.3 Print Date: 03/02/2017 Everlife WB (HG)-Wrought Iron Black F52104

Use personal protective equipment as required.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.		
P363	Wash contaminated clothing before reuse.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		

### 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
57-55-6		propylene glycol
7631-86-9	NotSpec.	silica amorphous
7664-41-7	0.19	ammonia anhydrous liquefied
56709-13-8	0.2	azadioxabicyclooctane, isomer 1
97-88-1	0.02	n-butyl methacrylate
9036-19-5	0.03	octylphenol, ethoxylated
14464-46-1	0.49	cristobalite
471-34-1	0.07	<u>calcium carbonate</u>
1314-13-2	5.3	<u>zinc oxide</u>
not avail.	68.2	Non-hazardous ingredient
1333-86-4	2.6	carbon black
55406-53-6	0.04-0.05	3-iodo-2-propynyl butyl carbamate
64742-95-6.	0.02-0.03	aromatic 150
25265-71-8	0.02-0.03	dipropylene glycol
67-68-5	0.02-0.03	dimethyl sulfoxide

# **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.

### **SECTION 5 FIRE-FIGHTING MEASURES**

# **Extinguishing media**

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

Chemwatch: 9-352356 Page 3 of 14

Version No: 2.3

Issue Date: 03/02/2017 Print Date: 03/02/2017 Everlife WB (HG)-Wrought Iron Black F52104

Fire Incompatibility None known. Special protective equipment and precautions for fire-fighters Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. ▶ Use fire fighting procedures suitable for surrounding area. Fire Fighting ▶ DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. ▶ Equipment should be thoroughly decontaminated after use Fire/Explosion Hazard ▶ Not considered a significant fire risk, however containers may burn. May emit corrosive fumes.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

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

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. $\,\blacktriangleright\,$ 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				
Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>			
Storage incompatibility	Zinc oxide:  ► slowly absorbs carbon dioxide from the air.  ► may react, explosively with magnesium and chlorinated rubber when heated  ► is incompatible with linseed oil (may cause ignition)			

Version No: 2.3

Issue Date: 03/02/2017 Print Date: 03/02/2017

None known

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, amorphous, precipitated and gel	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, fused, respirable dust	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, amorphous, diatomaceous earth	Not Available	Not Available	Not Available	See Table Z-3;containing less than 1% crystalline silica
US OSHA Permissible Exposure Levels (PELs) - Table Z3	silica amorphous	Amorphous	80/(%SiO2) mg/m3 / 20 mppcf	Not Available	Not Available	including natural diatomaceous earth
US NIOSH Recommended Exposure Limits (RELs)	silica amorphous	Diatomaceous earth, Diatomaceous silica, Diatomite, Precipitated amorphous silica, Silica gel, Silicon dioxide (amorphous)	6 mg/m3	Not Available	Not Available	Not Available
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 OSHA Permissible Exposure Levels (PELs) - Table Z1	cristobalite	Silica, crystalline cristobalite, respirable dust	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z3	cristobalite	Silica: Crystalline Cristobalite	Not Available	Not Available	Not Available	Use 1/2 the value calculated from the count or mass formulae for quartz
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Calcium carbonate / Calcium carbonate - Respirable fraction	15 mg/m3 / 5 mg/m3	Not Available	Not Available	Total dust
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium carbonate, Natural calcium carbonate [Note: Calcite & aragonite are commercially important natural calcium carbonates.] / Calcium carbonate, Natural calcium carbonate [Note: Marble is a metamorphic form of calcium carbonate.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium salt of carbonic acid [Note: Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite and oyster shells.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	zinc oxide	Zinc oxide fume / Zinc oxide / Zinc oxide - Respirable fraction	5 mg/m3 / 15 mg/m3	Not Available	Not Available	Total dust
US OSHA Permissible Exposure Levels (PELs) - Table Z3	zinc oxide	Inert or Nuisance Dust	5 mg/m3 / 15 mg/m3 / 15 mppcf / 50 mppcf	Not Available	Not Available	Respirable fraction; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1./ Total dust; All inert or nuisance dusts, whether mine inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.
US ACGIH Threshold Limit Values (TLV)	zinc oxide	Zinc oxide	2 mg/m3	10 mg/m3	Not Available	TLV® Basis: Metal fume fever
US NIOSH Recommended Exposure Limits (RELs)	zinc oxide	Zinc peroxide	Dust: 5 ,Fume: 5 mg/m3	Fume: 10 mg/m3	Dust: 15 mg/m3	Not Available

Everlife WB (HG)-Wrought Iron Black F52104

Chemwatch: 9-352356 Page 5 of 14 Issue Date: 03/02/2017
Version No: 2.3 Print Date: 03/02/2017

### Everlife WB (HG)-Wrought Iron Black F52104

Print Date: **03/02/2017** 

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
propylene glycol	Polypropylene glycols	30 mg/m3	330 mg/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)	30 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	Silica gel, amorphous synthetic	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	Silica, amorphous fumed	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	Silica, amorphous fume	45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	Silica amorphous hydrated	18 mg/m3	220 mg/m3	1,300 mg/m3
ammonia anhydrous liquefied	Ammonia	Not Available	Not Available	Not Available
n-butyl methacrylate	Methyl butylacrylate, 2-; (Butyl methacrylate)	19 mg/m3	210 mg/m3	1,300 mg/m3
octylphenol, ethoxylated	Polyoxyethylene monooctylphenyl ether	13 mg/m3	140 mg/m3	830 mg/m3
cristobalite	Cristobalite	0.075 mg/m3	33 mg/m3	200 mg/m3
calcium carbonate	Limestone; (Calcium carbonate; Dolomite)	45 mg/m3	500 mg/m3	3,000 mg/m3
calcium carbonate	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
zinc oxide	Zinc oxide	10 mg/m3	15 mg/m3	2,500 mg/m3
carbon black	Carbon black	9 mg/m3	99 mg/m3	590 mg/m3
3-iodo-2-propynyl butyl carbamate	Butyl-3-iodo-2-propynylcarbamate	3.3 mg/m3	36 mg/m3	220 mg/m3
dimethyl sulfoxide	Dimethyl sulfoxide; (DMSO)	150 ppm	290 ppm	1,800 ppm

Ingredient	Original IDLH	Revised IDLH
propylene glycol	Not Available	Not Available
silica amorphous	N.E. mg/m3 / N.E. ppm	3,000 mg/m3
ammonia anhydrous liquefied	500 ppm	300 ppm
azadioxabicyclooctane, isomer 1	Not Available	Not Available
n-butyl methacrylate	Not Available	Not Available
octylphenol, ethoxylated	Not Available	Not Available
cristobalite	N.E. mg/m3 / N.E. ppm	25 mg/m3
calcium carbonate	Not Available	Not Available
zinc oxide	2,500 mg/m3	500 mg/m3
Non-hazardous ingredient	Not Available	Not Available
carbon black	N.E. mg/m3 / N.E. ppm	1,750 mg/m3
3-iodo-2-propynyl butyl carbamate	Not Available	Not Available
aromatic 150	Not Available	Not Available
dipropylene glycol	Not Available	Not Available
dimethyl sulfoxide	Not Available	Not Available

### **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

Chemwatch: 9-352356 Issue Date: 03/02/2017 Page 6 of 14 Version No: 2.3

### Everlife WB (HG)-Wrought Iron Black F52104

Print Date: 03/02/2017

- 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









# Eye and face protection

- 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

#### NOTE:

- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ► Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

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.
- 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

- 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]
- Figure 2 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
- Figure 2 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.

# Other protection

- 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.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Overalls.
- P.V.C. apron.
- Barrier cream.

Skin cleansing cream.

Eye wash unit.

### Thermal hazards

Not Available

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Version No: 2.3

# Everlife WB (HG)-Wrought Iron Black F52104

Issue Date: **03/02/2017** Print Date: **03/02/2017** 

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

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  There is sufficient evidence to suggest that this material directly causes cancer in humans.

Everlife WB (HG)-Wrought
Iron Black F52104

TOXICITY	IRRITATION
Not Available	Not Available

# propylene glycol

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 100 mg - mild
Oral (rat) LD50: 20000 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg/24h - mild
	Skin(human):104 mg/3d Intermit Mod
	Skin(human):500 mg/7days mild

# silica amorphous

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): non-irritating *
Inhalation (rat) LC50: >0.139 mg/l/14hr * <sup>[2]</sup>	Skin (rabbit): non-irritating *
Oral (rat) LD50: 3160 mg/kg <sup>[2]</sup>	

Page 8 of 14 Issue Date: 03/02/2017 Version No. 2.3

### Everlife WB (HG)-Wrought Iron Black F52104

Print Date: 03/02/2017

Leaend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

PROPYLENE GLYCOL

The acute oral toxicity of propylene glycol is very low, and large quantities are required to cause perceptible health damage in humans. Serious toxicity generally occurs only at plasma concentrations over 1 g/L, which requires extremely high intake over a relatively short period of time. It would be nearly impossible to reach toxic levels by consuming foods or supplements, which contain at most 1 g/kg of PG.

For silica amorphous:

When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans.

SILICA AMORPHOUS

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible, [PATTYS]

AZADIOXABICYCLOOCTANE. ISOMER 1 For azadioxabicyclooctanes:

The acute oral and dermal toxicities of azadioxabicyclooctane are low. The acute inhalation toxicity showed a median lethal dose range of between 0.441 mg/L and 0.819 mg/L in males, and between 0.819 mg/L and 1.397 mg/L in females, with epistaxis, labored breathing, rales, and rhinorrhoea in all dose groups. Corneal opacity was observed in the primary eye irritation study resulting .

Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence of contrary evidence. For example

Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53  $\,$ 

Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38

For isobutyl methacrylates (i-BMA) and n-butyl methacrylates (n-BMA): These have low levels of toxicity orally, through skin contact or by inhalation. They **N-BUTYL METHACRYLATE** irritate the skin and eyes. They have not been shown to cause genetic damage or cancer, and there is little concern about them causing developmental toxicity. Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate mojety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing.

This position has now been revised and acrylates and methacrylates are no longer de facto carcinogens.

OCTYLPHENOL.

**ETHOXYLATED** 

Octoxynols of various chain lengths as well as octoxynol salts and organic acids function in cosmetics either as surfactants-emulsifying agents, surfactantscleansing agents, surfactant-solubilizing agents, or surfactants-hydrotropes in a wide variety of cosmetic products at concentrations ranging from 0.0008% to 25%, with most less than 5.0%. The octoxynols are chemically similar to nonoxynols.. Long-chain nonoxynols (9 and above) were considered safe as used, whereas short-chain nonoxynols (8 and below) were considered safe as used in rinse-off products and safe at concentrations less than 5% in leave-on

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.

Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse 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.

WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS

CRISTOBALITE

The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Inhalation (human) TCLo: 16 mppcf\*/8H/17.9y-I \* Millions of particles per cubic foot

**CALCIUM CARBONATE** 

No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.

**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

3-IODO-2-PROPYNYL BUTYL CARBAMATE For 3-iodo-2-propynyl butyl carbamate (IPBC):

Acute toxicity studies with IPBC show low toxicity except severe eye irritation. Animal testing showed that extended exposure may cause decreased weight gain and increased red cell and eosinophil counts. One study showed the possibility of increased breast cancer on extended contact.

**AROMATIC 150** 

for petroleum: This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropathic

This product contains toluene. There are indications from animal studies that prolonged exposure to high concentrations of toluene may lead to hearing loss.

for dipropylene glycol and its isomers:

DIPROPYLENE GLYCOL

Acute toxicity: Dipropylene glycol (DPG) is not acutely toxic by oral (LD 50 > 13 g/kg bw/day from 7 rat studies and 17.6 g/kg bw/day from a guinea pig study), dermal (LD50 > 5 g/kg bw/day in 2 rabbit studies) or inhalation (no deaths observed in rats and guinea pigs at 6 to 8 g/m3) routes of exposure. DPG is slightly irritating to the skin and eyes of rabbits. Based on human data, DPG is not a skin sensitiser.

DIMETHYL SULFOXIDE

DMSO (dimethyl sulfoxide) is absorbed following inhalation, through the skin and after oral intake. Topical application causes mild redness, burning, stinging and itching, which disappear after discontinuation. It is mildly irritating to the eve and may induce tear formation with a brief burning sensation Extensive monitoring of humans has shown that DMSO does not affect human kidney function. Although it causes an increase in urine production, no sign of kidney damage or cancer has been found. Repeated skin application can cause occasional skin irritation, garlicky breath and body odour. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce coniunctivitis

PROPYLENE GLYCOL & CALCIUM CARBONATE & ZINC OXIDE & DIMETHYL SULFOXIDE

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

AMMONIA ANHYDROUS **LIQUEFIED & CARBON BLACK** 

No significant acute toxicological data identified in literature search.

Chemwatch: 9-352356 Page 9 of 14 Issue Date: 03/02/2017 Version No: 2.3

# Everlife WB (HG)-Wrought Iron Black F52104

Print Date: 03/02/2017

AMMONIA ANHYDROUS LIQUEFIED & AZADIOXABICYCLOOCTANE, **ISOMER 1 & N-BUTYL** METHACRYLATE & **CALCIUM CARBONATE &** AROMATIC 150 & DIMETHYL SULFOXIDE

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 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.

AZADIOXABICYCLOOCTANE, ISOMER 1 & N-BUTYL **METHACRYLATE**  The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

OCTYLPHENOL, ETHOXYLATED & CALCIUM CARBONATE

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Acute Toxicity	0	Carcinogenicity	<b>~</b>
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

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

✓ – Data available to make classification

O - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
propylene glycol	EC50	96	96 Algae or other aquatic plants		3
propylene glycol	EC50	384	384 Crustacea 31		3
propylene glycol	NOEC	168	168 Fish 98n		4
silica amorphous	EC50	72	Algae or other aquatic plants	440mg/L	1
silica amorphous	EC50	384	Crustacea	28.000mg/L	3
silica amorphous	NOEC	72	Algae or other aquatic plants	60mg/L	1
ammonia anhydrous liquefied	EC50	96	Algae or other aquatic plants	311.661mg/L	3
ammonia anhydrous liquefied	EC50	1440	Crustacea	0.016mg/L	5
ammonia anhydrous liquefied	NOEC	Not Applicable	Fish	0.0015mg/L	5
azadioxabicyclooctane, isomer 1	EC50	96	Algae or other aquatic plants	503.941mg/L	3
azadioxabicyclooctane, isomer 1	EC50	96	Algae or other aquatic plants	193.440mg/L	3
n-butyl methacrylate	EC50	96	Algae or other aquatic plants	57mg/L	1
n-butyl methacrylate	EC50	504	Crustacea	6.59mg/L	2
n-butyl methacrylate	NOEC	336	Fish	0.78mg/L	2
octylphenol, ethoxylated	EC50	96	Algae or other aquatic plants	0.21mg/L	4
octylphenol, ethoxylated	EC50	96	Algae or other aquatic plants	0.21mg/L	4
octylphenol, ethoxylated	NOEC	168	Fish	0.004mg/L	4
calcium carbonate	EC50	72	Algae or other aquatic plants	>14mg/L	2
calcium carbonate	NOEC	72	Algae or other aquatic plants	14mg/L	2
zinc oxide	BCF	336	Fish	4376.673mg/L	4
zinc oxide	EC20	72	Algae or other aquatic plants	0.023mg/L	4
zinc oxide	NOEC	72	Algae or other aquatic plants	0.0049mg/L	2
carbon black	EC50	24	Crustacea	>5600mg/L	1
carbon black	NOEC	96	Fish	=1000mg/L	1
3-iodo-2-propynyl butyl carbamate	EC50	96	Algae or other aquatic plants	1.978mg/L	3
3-iodo-2-propynyl butyl carbamate	EC50	96	Crustacea	0.0234mg/L	4
3-iodo-2-propynyl butyl carbamate	NOEC	48	Crustacea	Crustacea <0.01mg/L	
aromatic 150	EC50	72	Algae or other aquatic plants	<1mg/L	1
aromatic 150	EC50	48	Crustacea	=0.95mg/L	1

Chemwatch: 9-352356 Page **10** of **14** Issue Date: 03/02/2017 Version No: 2.3 Print Date: 03/02/2017

# Everlife WB (HG)-Wrought Iron Black F52104

	NOTO	1 70	Alexander of the state	0.00	
aromatic 150	NOEC	72	Algae or other aquatic plants	0.3mg/L	2
aromatic 150	EC50	72	Algae or other aquatic plants	3.29mg/L	1
aromatic 150	EC10	72	Algae or other aquatic plants	1.13mg/L	1
aromatic 150	NOEC	72	Algae or other aquatic plants	=1mg/L	1
dipropylene glycol	EC50	48	Crustacea	>109mg/L	2
dimethyl sulfoxide	EC50	96	Algae or other aquatic plants	=12350-25500mg/L	1
dimethyl sulfoxide	EC0	48	Algae or other aquatic plants	=500.0mg/L	1
dimethyl sulfoxide	NOEC	168	Crustacea	0.1750000mg/L	4
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3. (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NIT (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

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

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

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

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
propylene glycol	LOW	LOW
silica amorphous	LOW	LOW
ammonia anhydrous liquefied	LOW	LOW
azadioxabicyclooctane, isomer 1	нівн	HIGH
n-butyl methacrylate	LOW	LOW
3-iodo-2-propynyl butyl carbamate	нівн	HIGH
dipropylene glycol	LOW	LOW
dimethyl sulfoxide	HIGH	HIGH

# Bioaccumulative potential

Ingredient	Bioaccumulation
propylene glycol	LOW (BCF = 1)
silica amorphous	LOW (LogKOW = 0.5294)
ammonia anhydrous liquefied	LOW (LogKOW = 0.229)
azadioxabicyclooctane, isomer	LOW (LogKOW = -1.5532)
n-butyl methacrylate	LOW (BCF = 114)
octylphenol, ethoxylated	LOW (BCF = 30)
zinc oxide	LOW (BCF = 217)
3-iodo-2-propynyl butyl carbamate	LOW (LogKOW = 2.4542)
aromatic 150	LOW (BCF = 159)
dipropylene glycol	LOW (BCF = 4.6)
dimethyl sulfoxide	LOW (BCF = 0.4)

# Mobility in soil

Ingredient	Mobility
propylene glycol	HIGH (KOC = 1)
silica amorphous	LOW (KOC = 23.74)
ammonia anhydrous liquefied	LOW (KOC = 14.3)
azadioxabicyclooctane, isomer 1	LOW (KOC = 10)
n-butyl methacrylate	LOW (KOC = 63.6)
3-iodo-2-propynyl butyl carbamate	LOW (KOC = 365.3)
dipropylene glycol	HIGH (KOC = 1)
dimethyl sulfoxide	LOW (KOC = 4.411)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

# Waste treatment methods

Product / Packaging

► Containers may still present a chemical hazard/danger when empty.

Chemwatch: 9-352356 Page 11 of 14 Issue Date: 03/02/2017 Version No: 2.3

# Everlife WB (HG)-Wrought Iron Black F52104

Print Date: 03/02/2017

▶ Return to supplier for reuse/ recycling if possible

### Otherwise:

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

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

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

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

### disposal

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



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

# PROPYLENE GLYCOL(57-55-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Pennsylvania - Hazardous Substance List	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
US - Rhode Island Hazardous Substance List	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US AIHA Workplace Environmental Exposure Levels (WEELs)	

### SILICA AMORPHOUS(7631-86-9) 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 - Hawaii Air Contaminant Limits	Contaminants
US - Idaho - Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - Idaho - Toxic and Hazardous Substances - Mineral Dust	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US - Massachusetts - Right To Know Listed Chemicals	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Michigan Exposure Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-3)	US OSHA Permissible Exposure Levels (PELs) - Table Z3
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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

Chemwatch: 9-352356 Page 12 of 14 Issue Date: 03/02/2017
Version No: 2.3 Print Date: 03/02/2017

### Everlife WB (HG)-Wrought Iron Black F52104

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 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

### AZADIOXABICYCLOOCTANE, ISOMER 1(56709-13-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

# N-BUTYL METHACRYLATE(97-88-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Massachusetts - Right To Know Listed Chemicals

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

US - Pennsylvania - Hazardous Substance List

US - Oregon Permissible Exposure Limits (Z-3)

US - Pennsylvania - Hazardous Substance List

### OCTYLPHENOL, ETHOXYLATED(9036-19-5) 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

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

### CRISTOBALITE(14464-46-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Alaska Limits for Air Contaminants	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
US - Hawaii Air Contaminant Limits	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Idaho - Limits for Air Contaminants	Contaminants
US - Idaho - Toxic and Hazardous Substances - Mineral Dust	US - Washington Permissible exposure limits of air contaminants
US - Massachusetts - Right To Know Listed Chemicals	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
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 - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US ACGIH Threshold Limit Values (TLV) - Carcinogens
Carcinogens	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z3

### CALCIUM CARBONATE(471-34-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

### ZINC OXIDE(1314-13-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Alaska Limits for Air Contaminants	Contaminants
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Washington Permissible exposure limits of air contaminants
(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 CWA (Clean Water Act) - Priority Pollutants
US - Idaho - Limits for Air Contaminants	US CWA (Clean Water Act) - Toxic Pollutants
US - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
US - Michigan Exposure Limits for Air Contaminants	US EPCRA Section 313 Chemical List
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Pennsylvania - Hazardous Substance List	US OSHA Permissible Exposure Levels (PELs) - Table Z3
US - Rhode Island Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### NON-HAZARDOUS INGREDIENT(NOT AVAIL.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

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

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

Chemwatch: 9-352356 Page 13 of 14 Issue Date: 03/02/2017 Version No: 2.3 Print Date: 03/02/2017

# Everlife WB (HG)-Wrought Iron Black F52104

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 US - Washington Permissible exposure limits of air contaminants US - Hawaii Air Contaminant Limits 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 Risl US - Oregon Permissible Exposure Limits (Z-1) Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity US - Pennsylvania - Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### 3-IODO-2-PROPYNYL BUTYL CARBAMATE(55406-53-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US EPCRA Section 313 Chemical List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

### AROMATIC 150(64742-95-6.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

# DIPROPYLENE GLYCOL(25265-71-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Pennsylvania - Hazardous Substance List

US - Rhode Island Hazardous Substance List

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

### DIMETHYL SULFOXIDE(67-68-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US AIHA Workplace Environmental Exposure Levels (WEELs)

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

### **Federal Regulations**

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

### SECTION 311/312 HAZARD CATEGORIES

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

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

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Ammonia	100	45.4

### 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

Carbon black (airborne, unbound particles of respirable size) Listed

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (dimethyl sulfoxide; 3-iodo-2-propynyl butyl carbamate; dipropylene glycol; propylene glycol; aromatic 150; n-butyl methacrylate; octylphenol, ethoxylated; cristobalite; ammonia anhydrous liquefied; carbon black; azadioxabicyclooctane, isomer 1)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	N (octylphenol, ethoxylated)
Japan - ENCS	N (octylphenol, ethoxylated; azadioxabicyclooctane, isomer 1)
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**

<sup>\*\*</sup>PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

Chemwatch: 9-352356 Page **14** of **14** Issue Date: 03/02/2017 Version No: 2.3

# Everlife WB (HG)-Wrought Iron Black F52104

Print Date: 03/02/2017

### Other information

### Ingredients with multiple cas numbers

Name	CAS No
silica amorphous	7631-86-9, 112945-52-5, 67762-90-7, 68611-44-9, 68909-20-6, 112926-00-8, 61790-53-2, 60676-86-0, 91053-39-3, 69012-64-2, 844491-94-7
azadioxabicyclooctane, isomer 1	56709-13-8, 107497-96-1, 59720-42-2, 6542-37-6
calcium carbonate	471-34-1, 13397-26-7, 15634-14-7, 1317-65-3, 72608-12-9, 878759-26-3, 63660-97-9, 459411-10-0, 198352-33-9, 146358-95-4
zinc oxide	1314-13-2, 175449-32-8
aromatic 150	64742-95-6., 64742-94-5
dipropylene glycol	25265-71-8, 110-98-5, 106-62-7, 108-61-2

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 $_{\circ}$ 

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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TEL (+61 3) 9572 4700.