

# **ICP Construction**

Version No: 1.1

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

Issue Date: 02/18/2017 Print Date: 02/18/2017 S.GHS.USA.EN

# **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	Work Paint EXT Alk-Black F61302
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses	Exterior 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

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

# SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

Classification	Aspiration Hazard Category 1, Carcinogenicity Category 1A	
Label elements		



### Hazard statement(s)

H304	May be fatal if swallowed and enters airways.	
H350	May cause cancer.	

# Hazard(s) not otherwise specified

Not Applicable

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.

### Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P308+P313	F exposed or concerned: Get medical advice/attention.	
P331	Do NOT induce vomiting.	
Precautionary statement(s) Storage		

### recountering statement(s) eterage

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
12251-27-3		nepheline
64742-47-8	16.25	distillates, petroleum, light, hydrotreated
1330-20-7	0.55	xylene
100-41-4	0.11	ethylbenzene
not avail.	4.5	Non-hazardous ingredient
14808-60-7	0.02	silica crystalline - quartz
1333-86-4	4.9	carbon black
14464-46-1	0.98	cristobalite
8052-41-3.	0.1	white spirit

## SECTION 4 FIRST-AID MEASURES

### Description of first aid measures

Eye Contact	If this product comes in contact with eyes: <ul> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>		
Skin Contact	If skin or hair contact occurs: ► 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>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> </ul>		

# Most important symptoms and effects, both acute and delayed

See Section 11

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- + A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

**BIOLOGICAL EXPOSURE INDEX - BEI** 

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Methylhippu-ric acids in

lant	
ppu-ric acids in urine	

Index 1.5 gm/gm creatinine 2 mg/min Sampling Time End of shift Last 4 hrs of shift Comments

# SECTION 5 FIRE-FIGHTING MEASURES

### Extinguishing media

- Foam.
- Dry chemical powder.BCF (where regulations permit).
- BCF (where regulations p
  Carbon dioxide.
- Water spray or fog Large fires only.

### Special hazards arising from the substrate or mixture

Fire Incompatibility + Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

# Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</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> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> </ul>

# SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</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> </ul>	

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

### SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

	-
Safe handling	<ul> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> </ul>

	▶ Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then
	r restrict a set of the set of
	▶ Avoid splash filling.
	Do NOT use compressed air for filling discharging or handling operations.
	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	▶ Use in a well-ventilated area.
	Prevent concentration in hollows and sumps.
	DO NOT enter confined spaces until atmosphere has been checked.
	DO NOT allow material to contact humans, exposed food or food utensils.
	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	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.
	<ul> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
	► Store in original containers.
	<ul> <li>Keep containers securely sealed.</li> </ul>
	No smoking, naked lights or ignition sources.
Other information	Store in a cool, dry, well-ventilated area.
	<ul> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>
	<ul> <li>Protect containers against physical damage and check regularly for leaks.</li> </ul>
	<ul> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Xylenes:</li> <li>may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride</li> <li>attack some plastics, rubber and coatings</li> <li>may generate electrostatic charges on flow or agitation due to low conductivity.</li> <li>Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.</li> <li>Aromatics can react exothermically with bases and with diazo compounds.</li> <li>For alkyl aromatics:</li> <li>The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.</li> <li>Following reaction with oxygen and under the influence of sunlight, a hydroperoxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) - this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen</li> <li>Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids.</li> <li>Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides.</li> <li>Hock-rearrangement by the influence of strong acids converts the hydroperoxides to hemiacetals. Peresters formed from the hydroperoxides undergo Criegee rearrangement easily.</li> <li>Alkali metals accelerate the oxidation while CO2 as co-oxidant enhances the selectivity.</li> <li>Microwave conditions give improved yields of the oxidation products.</li> <li>Photo-oxidation products may occur following reaction with hydroxyl radicals and NOx - these may be components of ph</li></ul>

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	distillates, petroleum, light, hydrotreated	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	distillates, petroleum, light, hydrotreated	Mineral oil, excluding metal working fluids - Pure, highly and severely refined / Mineral oil, excluding metal working fluids - Poorly and mildly refined	5 mg/m3	Not Available	Not Available	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	distillates, petroleum, light, hydrotreated	Heavy mineral oil mist, Paraffin oil mist, White mineral oil mist	5 mg/m3	10 mg/m3	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	xylene	Xylenes (o-, m-, p-isomers)	435 mg/m3 / 100 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	xylene	Xylene (all isomers)	100 ppm	150 ppm	Not Available	TLV® Basis: URT & eye irr; CNS impair; BEI

US OSHA Permissible Exposure Levels (PELs) - Table Z1	ethylbenzene	Ethyl benzene	435 mg/m3 / 100 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ethylbenzene	Ethyl benzene	20 ppm	Not Available	Not Available	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair; BEI
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethylbenzol, Phenylethane	435 mg/m3 / 100 ppm	545 mg/m3 / 125 ppm	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica crystalline - quartz	Silica, crystalline quartz, respirable dust	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z3	silica crystalline - quartz	Silica: Crystalline Quartz	10/(% SiO2+ 2) mg/m3 / 30/(% SiO2+ 2) mg/m3 / 250/(%SiO2+5) mppcf	Not Available	Not Available	(Respirable);(TWA mppcf (The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable)); (TWA mg/m3 (e)) / (Total Dust)
US NIOSH Recommended Exposure Limits (RELs)	silica crystalline - quartz	Cristobalite, Quartz, Tridymite, Tripoli	0.05 mg/m3	Not Available	Not Available	Ca See Appendix A
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
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	white spirit	Stoddard solvent	2900 mg/m3 / 500 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	white spirit	Stoddard solvent	100 ppm	Not Available	Not Available	TLV® Basis: Eye, skin, & kidney dam; nausea; CNS impair
US NIOSH Recommended Exposure Limits (RELs)	white spirit	Dry cleaning safety solvent, Mineral spirits, Petroleum solvent, Spotting naphtha [Note: A refined petroleum solvent with a flash point of 102-110°F, boiling point of 309-396°F, and containing >65% C10 or higher hydrocarbons.]	350 mg/m3	Not Available	1800 mg/m3	[15-minute]

# Ingredient

EMERGENCY LIMITS

Material name

xylene	Xylenes	Not Available	Not Available	Not Available
ethylbenzene	Ethyl benzene	Not Available	Not Available	Not Available
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
carbon black	Carbon black	9 mg/m3	99 mg/m3	590 mg/m3
cristobalite	Cristobalite	0.075 mg/m3	33 mg/m3	200 mg/m3
white spirit	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	300 mg/m3	1,800 mg/m3	29500 mg/m3
Ingredient	Original IDLH	Revised IDLH		
nepheline	Not Available	Not Available		
distillates, petroleum, light, hydrotreated	Not Available	Not Available		
xylene	1,000 ppm	900 ppm		
ethylbenzene	2,000 ppm	800 [LEL] ppm		
Non-hazardous ingredient	Not Available	Not Available		
silica crystalline - quartz	N.E. mg/m3 / N.E. ppm	50 mg/m3		
carbon black	N.E. mg/m3 / N.E. ppm	1,750 mg/m3		
cristobalite	N.E. mg/m3 / N.E. ppm	25 mg/m3		
white spirit	29,500 mg/m3	20,000 mg/m3		

### Exposure controls

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

TEEL-1

TEEL-2

TEEL-3

	<ul> <li>The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>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.</li> <li>Employers may need to use multiple types of controls to prevent employee overexposure.</li> <li>Mork 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.</li> <li>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.</li> <li>Open-vessel systems are prohibited.</li> <li>Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.</li> <li>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.</li> <li>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.</li> <li>Except for outdoor systems, regulated areas should be maintained under negative pressure</li></ul>
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. 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]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	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: <ul> <li>frequency and duration of contact.</li> <li>chemical resistance of glove material.</li> <li>glove thickness and</li> <li>dexterity</li> </ul> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>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.</li> <li>When only be oplomer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>Some glove synkin thickness typically greater than 0.35 mm, are recommended.</li> <li>thould be explaned on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge or breakthrough times.</li> <li>Thinker gloves (up to 3 mm or more) may be required where a high degree of manual dexterity is needed. Ho</li>
Body protection	Wear sarety tootwear or sarety gumboots, e.g. Rubber 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 fumes, 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 evewash 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 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</li> </ul>

continuous-air supplied hood.

Prior to removing protective gaments the employee should undergo decontamination and be required to shower upon removal of the gaments and hood.
 Overalls.
 P.V.C. apron.
 Barrier cream.
 Skin cleansing cream.
 Eye wash unit.

Thermal hazards
Not Available

### **Respiratory protection**

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate. Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class 1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+		-	Airline**

\* - Continuous Flow

\*\* - Continuous-flow or positive pressure demand.

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

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance

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.

	Headache, fatigue, tiredness, irritability and digestive disturbances (nause overexposure. Injury to the heart, liver, kidneys and nervous system has al Xylene is a central nervous system depressant			ost common symptoms of xylene	
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) 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	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives . Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
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	There is sufficient evidence to suggest that this material directly causes Repeated application of mildly hydrotreated oils (principally paraffinic), to hydrotreated oils. Women exposed to xylene in the first 3 months of pregnancy showed a s exposed to xylene has demonstrated lack of genetic toxicity.	mouse skin, i	nduced skin tumours; no tum		
	тохісіту	IDDI	TATION		
Work Paint EXT AlkBlack F61302	Not Available		Available		
	ΤΟΧΙΟΙΤΥ	IRRI	TATION		
nepheline	Not Available	Not A	Available		
	TOXICITY			IRRITATION	
distillates, petroleum, light, hydrotreated	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>			Not Available	
	Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>				
	TOXICITY IRRITATION				
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>			nt	
xylene			Eye (rabbit): 5 mg/24h SEVEF	RE	
	Oral (rat) LD50: 4300 mg/kg <sup>[2]</sup> Eye (rabbit): 87 mg mild				
	Skin (rabbit):500 mg/24h moderate			erate	
	тохісіту		IRRITATION		
	Dermal (rabbit) LD50: ca.15432.6 mg/kg <sup>[1]</sup>		Eye (rabbit): 500 mg -	SEVERE	
ethylbenzene			Skin (rabbit): 15 mg/24	h mild	
	Inhalation (rat) LC50: 55 mg/L/2hr <sup>[2]</sup>				
	Oral (rat) LD50: 3500 mg/kg <sup>[2]</sup>	Oral (rat) LD50: 3500 mg/kg <sup>[2]</sup>			
Non-hazardous ingredient	TOXICITY		TATION		
	Not Available	Not A	Available		
	TOVICITY	10.01	TATION		
silica crystalline - quartz	TOXICITY Not Available		TATION Available		
	ΤΟΧΙΟΙΤΥ			IRRITATION	
carbon black	Dermal (rabbit) LD50: >3000 mg/kg <sup>[2]</sup>			Not Available	
	Dermal (rabbit) LD50: >3000 mg/kg <sup>[1]</sup> Not Available           Oral (rat) LD50: >8000 mg/kg <sup>[1]</sup>				
	TOWOTY		TATION		
cristobalite	TOXICITY IRRITATION				
	Not Available		Available		
	ΤΟΧΙΟΙΤΥ		IRRITATION		
white spirit	Inhalation (rat) LC50: >1400 ppm/8hr <sup>[2]</sup>		Eye (human): 470 ppm/15m		
			Eye (rabbit): 500 mg/24h mod	lerate	
			,		

Legend:	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		
NEPHELINE	No data available No data available		
DISTILLATES, PETROLEUM, LIGHT, HYDROTREATED	Kerosene may produce varying ranges of skin irritation, and a reversible eye irritation (if eyes are washed). Skin may be cracked or flaky and/or leathery, with crusts and/or hair loss. It may worsen skin cancers.		
XYLENE	The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. Reproductive effector in rats		
ETHYLBENZENE	Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out through urine. It may irritate the skin, eyes and may cause hearing loss if exposed to high doses. <b>NOTE:</b> Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded.		
CARBON BLACK	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported		
CRISTOBALITE	Inhalation (human) TCLo: 16 mppcf*/8H/17.9y-I * Millions of part	ticles per cubic foot	
WHITE SPIRIT	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. white spirit, as CAS RN 8052-41-3		
DISTILLATES, PETROLEUM, LIGHT, HYDROTREATED & CARBON BLACK	No significant acute toxicological data identified in literature search.		
XYLENE & ETHYLBENZENE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
XYLENE & ETHYLBENZENE	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.		
ETHYLBENZENE & CARBON BLACK	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.		
SILICA CRYSTALLINE - QUARTZ & CRISTOBALITE	WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS		
SILICA CRYSTALLINE - QUARTZ & CRISTOBALITE	The International Agency for Research on Cancer (IARC) has cl carcinogenic to humans . This classification is based on what IA carcinogenicity of inhaled silica in the forms of quartz and cristo	RC considered sufficient evidence	e from epidemiological studies of humans for the
Acute Toxicity	0	Carcinogenicity	✓
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	$\odot$	Aspiration Hazard	✓
		v •	<ul> <li>Data available but does not fill the criteria for classification</li> <li>Data available to make classification</li> <li>Data Not Available to make classification</li> </ul>

# SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
distillates, petroleum, light, hydrotreated	LC50	96	Fish	2.2mg/L	4
distillates, petroleum, light, hydrotreated	NOEC	3072	Fish	=1mg/L	1
xylene	LC50	96	Fish	2.6mg/L	2
xylene	EC50	48	Crustacea	>3.4mg/L	2
xylene	EC50	72	Algae or other aquatic plants	4.6mg/L	2
xylene	EC50	24	Crustacea	0.711mg/L	4
xylene	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
ethylbenzene	LC50	96	Fish	0.0043mg/L	4
ethylbenzene	EC50	48	Crustacea	1.184mg/L	4
ethylbenzene	EC50	96	Algae or other aquatic plants	3.6mg/L	2
ethylbenzene	EC50	96	Crustacea	=0.49mg/L	1
ethylbenzene	NOEC	168	Crustacea	0.96mg/L	5
carbon black	LC50	96	Fish	=1000mg/L	1
carbon black	EC50	24	Crustacea	>5600mg/L	1

Version No: 1.1

# Work Paint EXT Alk.-Black F61302

carbon black	NOEC	96	Fish	=1000mg/L	1
	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				
Legend:					

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

In drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility

- lethal effects on fish by coating gill surfaces, preventing respiration
- + asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation. For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus. The order of most toxic to least in a study using grass shrimp and brown shrimp was dimethylnaphthalenes > methylnaphthalenes > naphthalenes. Anthrcene is a phototoxic PAH. UV light greatly increases the toxicity of anthracene to bluegill sunfish. Biological resources in strong sunlight are at more risk than those that are not. PAHs in general are more frequently associated with chronic risks. For Xvlenes:

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process. Soil - Xylenes are expected to have moderate mobility in soil evaporating rapidly from soil surfaces. The extent of the degradation is expected to depend on its concentration, residence time in the soil, the nature of the soil, and whether resident microbial populations have been acclimated. Xylene can remain below the soil surface for several days and may travel through the soil profile and enter groundwater. Soil and water microbes may travel through the soil profile and enter groundwater, but it may be months or years.

Atmospheric Fate: Xylene evaporates quickly into the air from surface soil and water and can remain in the air for several days until it is broken down by sunlight into other less harmful chemicals. In the ambient atmosphere, xylenes are expected to exist solely in the vapour phase. Xylenes are degraded in the atmosphere with an estimated atmospheric lifetime of about 0.5 to 2 days. Xylene may contribute to photochemical smog formation. p-Xylene has a moderately high photochemical reactivity under smog conditions, higher than the other xylene isomers. The photooxidation of p-xylene results in the production of carbon monoxide, formaldehyde, glyoxal, arethylglyoxal, 3-methylbenzylnitrate, m-tolualdehyde, 4-nitro-3-xylene, 5-nitro-3-xylene, 2,6-dimethyl-p-benzoquinone, 2,4-dimethylphenol, 6-nitro-2,4-dimethylphenol, and 4-nitro-2,6-dimethylphenol.

Aquatic Fate: p-xylene may adsorb to suspended solids and sediment in water and is expected to volatilise from water surfaces. Estimated volatilisation half-lives for a model river and model lake are 3 hours and 4 days, respectively. Measurements taken from goldfish, eels and clams indicate that bioconcentration in aquatic organisms is low. Photo-oxidation in the presence of humic acids may play an important role in the abiotic degradation of p-xylene. p-Xylene is biodegradable and has been observed to degrade in pond water however; it is unclear if it degrades in surface waters. p-Xylene has been observed to degrade in anaerobic and aerobic groundwater; however, it is known to persist for many years in groundwater, at least at sites where the concentration might have been quite high. Ecotoxicity: Xylenes are slightly toxic to fathead minnow, rainbow trout and bluegill and not acutely toxic to water fleas. For Photobacterium phosphoreum EC50 (24 h): 0.0084 mg/L. and Gammarus lacustris LC50 (48 h): 0.6 mg/L.

DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
distillates, petroleum, light, hydrotreated	LOW (BCF = 159)
xylene	MEDIUM (BCF = 740)
ethylbenzene	LOW (BCF = 79.43)

### Mobility in soil

Ingredient	Mobility
ethylbenzene	LOW (KOC = 517.8)

### SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise: <ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>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.</li> </ul> </li> </ul>

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 or consult manufacturer for recycling options.
<ul> <li>Consult State Land Waste Authority for disposal.</li> </ul>
Bury or incinerate residue at an approved site.
<ul> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

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

### Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

### NEPHELINE(12251-27-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

### DISTILLATES, PETROLEUM, LIGHT, HYDROTREATED(64742-47-8) 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 Permissible Exposure Limits for Chemical Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California Proposition 65 - Carcinogens	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV)
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Michigan Exposure Limits for Air Contaminants	US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens
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 Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
	Chemicals Causing Reproductive Toxicity
	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS	

Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air

US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants

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

US - Washington Permissible exposure limits of air contaminants

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US CWA (Clean Water Act) - List of Hazardous Substances

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US ACGIH Threshold Limit Values (TLV)

US Clean Air Act - Hazardous Air Pollutants

US EPCRA Section 313 Chemical List

US EPA Carcinogens Listing

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

- US Alaska Limits for Air Contaminants
- US California OEHHA/ARB Acute Reference Exposure Levels and Target Organs (RELs)
- US California OEHHA/ARB Chronic Reference Exposure Levels and Target Organs
- (CRELs)
- US California Permissible Exposure Limits for Chemical Contaminants
- US Hawaii Air Contaminant Limits
- US Idaho Limits for Air Contaminants
- US Massachusetts Right To Know Listed Chemicals
- US Michigan Exposure Limits for Air Contaminants
- US Minnesota Permissible Exposure Limits (PELs)
- US Oregon Permissible Exposure Limits (Z-1)
- US Pennsylvania Hazardous Substance List
- US Rhode Island Hazardous Substance List
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants

ETHYLBENZENE(100-41-4) 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 Transitional Limits for Air
Monographs	Contaminants
JS - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
JS - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals Causing Reproductive Toxicity	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
JS - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
CRELS)	US ACGIH Threshold Limit Values (TLV)
JS - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
JS - California Proposition 65 - Carcinogens	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
IS - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens	US Clean Air Act - Hazardous Air Pollutants US CWA (Clean Water Act) - List of Hazardous Substances
JS - Hawaii Air Contaminant Limits	US CWA (Clean Water Act) - List of Plazardous Substances
JS - Idaho - Limits for Air Contaminants	US CWA (Clean Water Act) - Thomy Follutants
JS - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing
IS - Michigan Exposure Limits for Air Contaminants	US EPCRA Section 313 Chemical List
S - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
S - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US OSHA Permissible Exposure Levels (PELs) - Table Z1
Carcinogens	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
IS - Oregon Permissible Exposure Limits (Z-1)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
S - Pennsylvania - Hazardous Substance List	
IS - Rhode Island Hazardous Substance List	
S - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
IS - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	
ION-HAZARDOUS INGREDIENT(NOT AVAIL.) IS FOUND ON THE FOLLOWING REGU	JLATORY LISTS
lot Applicable	
ILICA CRYSTALLINE - QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGU	
ternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Rhode Island Hazardous Substance List
lonographs	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
S - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminal
S - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
CRELs)	Contaminants
S - California Permissible Exposure Limits for Chemical Contaminants	US - Washington Permissible exposure limits of air contaminants
S - California Proposition 65 - Carcinogens	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
IS - Hawaii Air Contaminant Limits	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
IS - Idaho - Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts
IS - Idaho - Toxic and Hazardous Substances - Mineral Dust	US ACGIH Threshold Limit Values (TLV) - Carcinogens
IS - Massachusetts - Right To Know Listed Chemicals	US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinoger
IS - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
IS - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1
IS - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US OSHA Permissible Exposure Levels (PELs) - Table Z3
Carcinogens	US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Ri
JS - Oregon Permissible Exposure Limits (Z-1)	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for
JS - Oregon Permissible Exposure Limits (Z-3)	Chemicals Causing Reproductive Toxicity
JS - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
ARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
nternational Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Rhode Island Hazardous Substance List
Ionographs	US - Rendersand Hazardous Substance List
IS - Alaska Limits for Air Contaminants	
JS - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar
IS - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
IS - California Proposition 65 - Carcinogens	US - Washington Permissible exposure limits of air contaminants
IS - Hawaii Air Contaminant Limits IS - Idaho - Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
S - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV)
IS - Michigan Exposure Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
IS - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)
IS - 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 Ri
IS - Oregon Permissible Exposure Limits (Z-1)	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity
IS - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
	US TOXIC SUBSTATICES CONTROLACT (TSCA) - CHEMICAL SUBSTATICE INVENTORY
RISTOBALITE(14464-46-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
	LIS - Tennessee Occupational Exposure Limite - Limite For Air Contaminante
IS - Alaska Limits for Air Contaminants	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
IS - Alaska Limits for Air Contaminants IS - California Permissible Exposure Limits for Chemical Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar
IS - Alaska Limits for Air Contaminants IS - California Permissible Exposure Limits for Chemical Contaminants IS - Hawaii Air Contaminant Limits	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
JS - Alaska Limits for Air Contaminants JS - California Permissible Exposure Limits for Chemical Contaminants JS - Hawaii Air Contaminant Limits JS - Idaho - Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
IS - Alaska Limits for Air Contaminants IS - California Permissible Exposure Limits for Chemical Contaminants IS - Hawaii Air Contaminant Limits IS - Idaho - Limits for Air Contaminants IS - Idaho - Toxic and Hazardous Substances - Mineral Dust	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants US - Washington Permissible exposure limits of air contaminants
JS - Alaska Limits for Air Contaminants JS - California Permissible Exposure Limits for Chemical Contaminants JS - Hawaii Air Contaminant Limits JS - Idaho - Limits for Air Contaminants JS - Idaho - Toxic and Hazardous Substances - Mineral Dust JS - Massachusetts - Right To Know Listed Chemicals	<ul> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminar</li> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air</li> <li>Contaminants</li> <li>US - Washington Permissible exposure limits of air contaminants</li> <li>US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values</li> </ul>
US - Alaska Limits for Air Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Hawaii Air Contaminant Limits US - Idaho - Limits for Air Contaminants US - Idaho - Toxic and Hazardous Substances - Mineral Dust US - Massachusetts - Right To Know Listed Chemicals US - Michigan Exposure Limits for Air Contaminants	<ul> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminant</li> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants</li> <li>US - Washington Permissible exposure limits of air contaminants</li> <li>US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values</li> <li>US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants</li> </ul>
US - Alaska Limits for Air Contaminants JS - California Permissible Exposure Limits for Chemical Contaminants JS - Hawaii Air Contaminant Limits JS - Idaho - Limits for Air Contaminants JS - Idaho - Toxic and Hazardous Substances - Mineral Dust JS - Massachusetts - Right To Know Listed Chemicals JS - Michigan Exposure Limits for Air Contaminants JS - Minnesota Permissible Exposure Limits (PELs)	<ul> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminant</li> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants</li> <li>US - Washington Permissible exposure limits of air contaminants</li> <li>US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values</li> <li>US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants</li> <li>US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants</li> </ul>
CRISTOBALITE(14464-46-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Alaska Limits for Air Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Idaho - Limits for Air Contaminants US - Idaho - Limits for Air Contaminants US - Idaho - Toxic and Hazardous Substances - Mineral Dust US - Massachusetts - Right To Know Listed Chemicals US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits for Air Contaminants US - Minnesota Permissible Exposure Limits (PELs) US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens	<ul> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminant</li> <li>US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants</li> <li>US - Washington Permissible exposure limits of air contaminants</li> <li>US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values</li> <li>US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants</li> </ul>

- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL):
- Carcinogens
- US Oregon Permissible Exposure Limits (Z-1)
- US Oregon Permissible Exposure Limits (Z-3)
- US Pennsylvania Hazardous Substance List

WHITE SPIRIT(8052-41-3.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Levels (PELs) - Table Z3

Continued...

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	
US - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air	
US - California Permissible Exposure Limits for Chemical Contaminants	Contaminants	
US - California Proposition 65 - Carcinogens	US - Washington Permissible exposure limits of air contaminants	
US - Hawaii Air Contaminant Limits	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants	
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)	
US - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV) - Carcinogens	
US - Michigan Exposure Limits for Air Contaminants	US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens	
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 Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk	
US - Rhode Island Hazardous Substance List	Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for 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

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 (Ib)	Reportable Quantity in kg
Xylene (mixed)	100	45.4
Ethylbenzene	1000	454

### 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

Soots, tars, and mineral oils (untreated and mildly treated oils and used engine oils), Ethylbenzene, Silica, crystalline (airborne particles of respirable size), Carbon black (airborne, unbound particles of respirable size) Listed

National Inventory	Status
Australia - AICS	N (nepheline)
Canada - DSL	Υ
Canada - NDSL	N (white spirit; xylene; ethylbenzene; nepheline; silica crystalline - quartz; distillates, petroleum, light, hydrotreated; cristobalite; carbon black)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	N (nepheline)
Japan - ENCS	N (nepheline)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	N (nepheline)
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
nepheline	12251-27-3, 37244-96-5
silica crystalline - quartz	14808-60-7, 122304-48-7, 122304-49-8, 12425-26-2, 1317-79-9, 70594-95-5, 87347-84-0, 308075-07-2

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

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

### This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.

