

Skid Grip Crimson - F06525

ICP Construction

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

Issue Date: **08/24/2018**Print Date: **08/24/2018**S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Skid Grip Crimson - F06525
Synonyms	Not Available
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Anti-slip coating

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

Registered company name	ICP Construction
Address	150 Dascomb Road Andover MA United States
Telephone	978-623-9980
Fax	Not Available
Website	http://www.icp-construction.com/
Email	Not Available

Emergency phone number

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

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Eye Irritation Category 2B, Skin Sensitizer Category 1, Carcinogenicity Category 1A, Specific target organ toxicity - repeated exposure Category 2

Label elements

Hazard pictogram(s)





SIGNAL WORD

DANGER

Hazard statement(s)

H320	Causes eye irritation.	
H317	May cause an allergic skin reaction.	
H350	H350 May cause cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	

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Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary statement(s) Response

	<u> </u>
P308+P313	IF exposed or concerned: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

Precautionary statement(s) Storage

P405	ı	Store locked up.
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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
14808-60-7	34.98	silica crystalline - quartz
68476-25-5	1.76	<u>feldspars</u>
107-21-1	1.93	ethylene glycol
1309-37-1	1.46	ferric oxide

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

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	► Generally not applicable.
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. Generally not applicable.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Generally not applicable.
Ingestion	► Generally not applicable.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to ethylene glycol:

- Early treatment of ingestion is important. Ensure emesis is satisfactory.
- ► Test and correct for metabolic acidosis and hypocalcaemia.
- ▶ Apply sustained diuresis when possible with hypertonic mannitol.
- ▶ Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

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[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.

Latitinen J., et al. Occupational & Environmental Medicine 1996: 53, 595-600

for irritant gas exposures:

- the presence of the agent when it is inhaled is evanescent (of short duration) and therefore, cannot be washed away or otherwise removed
- arterial blood gases are of primary importance to aid in determination of the extent of damage. Never discharge a patient significantly exposed to an irritant gas without obtaining an arterial blood sample.
- resupportive measures include suctioning (intubation may be required), volume cycle ventilator support (positive and expiratory pressure (PEEP), steroids and antibiotics, after a culture is taken
- If the eyes are involved, an ophthalmologic consultation is recommended

Occupational Medicine: Third Edition: Zenz. Dickerson. Horvath 1994 Pub: Mosby

For acute or short term repeated exposures to ammonia and its solutions:

- Mild to moderate inhalation exposures produce headache, cough, bronchospasm, nausea, vomiting, pharyngeal and retrosternal pain and conjunctivitis. Severe inhalation produces larvngospasm, signs of upper airway obstruction (stridor, hoarseness, difficulty in speaking) and, in excessively, high doses, pulmonary oedema.
- ▶ Warm humidified air may soothe bronchial irritation.
- ► Test all patients with conjunctival irritation for corneal abrasion (fluorescein stain, slit lamp exam)
- ▶ Dyspneic patients should receive a chest X-ray and arterial blood gases to detect pulmonary oedema.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
Special protective equipment	and precautions for fire-fighters
Fire Fighting	 When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles. When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	silicon dioxide (SiO2) May emit corrosive furnes. Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 ▶ Clean up all spills immediately. ▶ Secure load if safe to do so.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Minor hazard. Clear area of personnel.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling	9
Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.
Other information	► Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

• ,	
Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear.
Storage incompatibility	Silicas: • react with hydrofluoric acid to produce silicon tetrafluoride gas • react with xenon hexafluoride to produce explosive xenon trioxide • reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds • may react with fluorine, chlorates • are incompatible with strong oxidisers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl

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- acetate
- ► may react vigorously when heated with alkali carbonates.
- ▶ WARNING: Avoid or control reaction with peroxides. All *transition meta*l peroxides should be considered as potentially explosive.

For ammonia:

- ▶ Ammonia forms explosive mixtures with oxygen, chlorine, bromine, fluorine, iodine, mercury, platinum and silver.
- Fire and/or explosion may follow contact with acetaldehyde, acrolein, aldehydes, alkylene oxides, amides, antimony, boron, boron halides, bromine chloride, chloric acid, chlorine monoxide, o-chloronitrobenzene, 1-chloro-2,4-nitrobenzene, chlorosilane, chloromelamine, chromium trioxide, chromyl chloride, epichlorohydrin, hexachloromelamine, hypochlorites (do NOT mix ammonia with liquid household bleach), isocyanates, nitrogen tetraoxide, nitrogen trichloride, nitryl chloride, organic anhydrides, phosphorous trioxide, potassium ferricyanide, potassium mercuric cyanide, silver chloride, stibine, tellurium halides, tellurium hydropentachloride, tetramethylammonium amide, trimethylammonium amide, trioxygen difluoride, vinyl acetate.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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 Z3	silica crystalline - quartz	Silica: Crystalline Quartz	10 / (% SiO2 + 2) mg/m3 / 250 / (%SiO2 + 5) mppcf	Not Available	Not Available	(Name ((Respirable) ((f) This standard applies to any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or is otherwise not in effect.))); (TWA mppcf (((b) 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) Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size-selector with the following characteristics: Aerodynamic diameter (unit density sphere), Percent passing selector 2, 90 2.5, 75 3.5, 50 5.0, 25 10, 0. The measurements under this note refer to the use of an AEC (now NRC) instrument. The respirable fraction of coal dust is determined with an MRE; the figure corresponding to that of 2.4 mg/m3 in the table for coal dust is 4.5 mg/m3K.)))
US ACGIH Threshold Limit Values (TLV)	silica crystalline - quartz	Silica, crystalline - α-quartz and cristobalite	0.025 mg/m3	Not Available	Not Available	TLV® Basis: Pulm fibrosis; lung cancer
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica crystalline - quartz	Silica, crystalline, respirable dust: Quartz	Not Available	Not Available	Not Available	see 1910.1053; (7) See Table Z-3 for the exposure limit for any operations or sectors where the exposure limit in § 1910.1053 is stayed or is otherwise not in effect.
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	1,2-Dihydroxyethane; 1,2-Ethanediol; Glycol; Glycol alcohol; Monoethylene glycol	Not Available	Not Available	Not Available	See Appendix D
US ACGIH Threshold Limit Values (TLV)	ethylene glycol	* Ethylene glycol	25 ppm	10 mg/m3 / 50 ppm	Not Available	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	ferric oxide	Iron(III)oxide, Iron oxide red, Red iron oxide, Red oxide	Not Available	Not Available	Not Available	See Appendix D
US NIOSH Recommended Exposure Limits (RELs)	ferric oxide	Ferric oxide, Iron(III) oxide	5 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ferric oxide	Iron oxide (Fe203)	5 mg/m3	Not Available	Not Available	TLV® Basis: Pneumoconiosis
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ferric oxide	Rouge: Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ferric oxide	Iron oxide fume	10 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ferric oxide	Rouge: Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
ethylene glycol	Ethylene glycol	30 ppm	40 ppm	60 ppm
ferric oxide	Iron oxide: (Ferric oxide)	15 ma/m3	360 mg/m3	2.200 mg/m3

Ingredient	Original IDLH	Revised IDLH
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available
feldspars	Not Available	Not Available
ethylene glycol	Not Available	Not Available
ferric oxide	2,500 mg/m3	Not Available

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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. Appropriate engineering Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. controls Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment. CARE: Explosive vapour air mixtures may be present on opening vessels which have contained liquid ammonia. Fatalities have occurred Personal protection Safety glasses with side shields Eye and face protection Chemical goggles No special equipment required due to the physical form of the product. Skin protection Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: Hands/feet protection ► 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. No special equipment required due to the physical form of the product. **Body protection** See Other protection below Figure 2 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] ▶ 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. 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. Overalls. ▶ P.V.C

Respiratory protection

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

If inhalation risk above the TLV exists, wear approved dust respirator.

Use respirators with protection factors appropriate for the exposure level

- ▶ Up to 5 X TLV, use valveless mask type; up to 10 X TLV, use 1/2 mask dust respirator
- ▶ Up to 50 X TLV, use full face dust respirator or demand type C air supplied respirator
- ▶ Up to 500 X TLV, use powered air-purifying dust respirator or a Type C pressure demand supplied-air respirator
- Over 500 X TLV wear full-face self-contained breathing apparatus with positive pressure mode or a combination respirator with a Type C positive pressure supplied-air full-face respirator and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	article	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

e section 7

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Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Inhaled	There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. 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. The highly irritant properties of ammonia vapour result as the gas dissolves in mucous fluids and forms irritant, even corrosive solutions. Inhalation of the ammonia furnes causes coughing, vomiting, reddening of lips, mouth, nose, throat and conjunctiva while higher concentrations can cause temporary blindness, restlessness, tightness in the chest, pulmonary oedema (lung damage), weak pulse and cyanosis. Effects on lungs are significantly enhanced in the presence of respirable particles. Acute silicosis occurs under conditions of extremely high silica dust exposure particularly when the particle size of the dust is small. The disease is rapidly progressive and spreads widely through the lungs within months of the initial exposure and causing death within 1 to 2 years.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. Large doses of ammonia or injected ammonium salts may produce diarrhoea and may be sufficiently absorbed to produce increased production of urine and systemic poisoning. Symptoms include weakening of facial muscle, tremor, anxiety, reduced muscle and limb control.			
Skin Contact	Skin contact is not thought to have harmful health effects (as through wounds, lesions or abrasions. There is some evidence to suggest that this material can cau Open cuts, abraded or irritated skin should not be exposed to Entry into the blood-stream, through, for example, cuts, abras use of the material and ensure that any external damage is st Mild skin reaction is seen with contact of the vapour of this material, a stinging sensation, burns and blisters and possible be	se inflammation of the skin on contacthis material ions or lesions, may produce system itably protected. aterial on moist skin. High concentra	it in some persons. ic injury with harmful effects. Examine the skin prior to the	
Eye	There is some evidence to suggest that this material can cau	se eye irritation and damage in some	e persons.	
Chronic	Skin contact with the material is more likely to cause a sensit There is sufficient evidence to suggest that this material dire Toxic: danger of serious damage to health by prolonged expt This material can cause serious damage if one is exposed to defects. Crystalline silicas activate the inflammatory response of whit reduces lung capacity and predisposes to chest infections. Chronic excessive intake of iron have been associated with or	otly causes cancer in humans. sure through inhalation. it for long periods. It can be assumed blood cells after they injure the lung	d that it contains a substance which can produce severe gepithelium. Chronic exposure to crystalline silicas	
	at an increased risk. Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur	ur may cause long-term irritation to th		
	Prolonged or repeated minor exposure to ammonia gas/vapo	ur may cause long-term irritation to th		
Child Cain Cainnan FOCCO.	Prolonged or repeated minor exposure to ammonia gas/vapo	ur may cause long-term irritation to th		
Skid Grip Crimson - F06525	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur	ur may cause long-term irritation to th		
Skid Grip Crimson - F06525 silica crystalline - quartz	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur	ur may cause long-term irritation to th ctivitis.		
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silica crystalline - quartz	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available	IRRITATION Not Available IRRITATION Not Available IRRITATION Not Available		
silica crystalline - quartz	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available	IRRITATION Not Available IRRITATION Not Available IRRITATION Not Available IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION IRRITATION	e eyes, nose and upper airway. Repeated exposure or	
silica crystalline - quartz	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 9530 mg/kg ^[2]	IRRITATION Not Available IRRITATION Not Available IRRITATION Not Available IRRITATION Eye (rabbit): 1	e eyes, nose and upper airway. Repeated exposure or	
silica crystalline - quartz	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 9530 mg/kg ^[2] Inhalation (rat) LC50: 100.2 mg/l/8hr ^[2]	IRRITATION Not Available IRRITATION Not Available IRRITATION Not Available IRRITATION Electronic in the image of the im	e eyes, nose and upper airway. Repeated exposure or 00 mg/1h - mild 2 mg/m3/3D	
silica crystalline - quartz feldspars	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 9530 mg/kg ^[2]	IRRITATION Not Available IRRITATION Not Available IRRITATION Not Available IRRITATION Eye (rabbit): 1 Eye (rabbit): 1	e eyes, nose and upper airway. Repeated exposure or 00 mg/1h - mild 2 mg/m3/3D 440mg/6h-moderate	
silica crystalline - quartz feldspars	Prolonged or repeated minor exposure to ammonia gas/vapc prolonged contact may produce skin inflammation and conjur TOXICITY Not Available TOXICITY Not Available TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 9530 mg/kg ^[2] Inhalation (rat) LC50: 100.2 mg/l/8hr ^[2]	IRRITATION Not Available IRRITATION Not Available IRRITATION Not Available IRRITATION Eye (rabbit): 1 Eye (rabbit): 1 Eye (rabbit): 5 Eye (rabbit): 5	e eyes, nose and upper airway. Repeated exposure or 00 mg/1h - mild 2 mg/m3/3D	
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data extracted from RTECS - Register of Toxic Effect of chemical Substances

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SILICA CRYSTALLINE - QUARTZ	WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS 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.				
FELDSPARS	No significant acute toxicological data identified in literat	ure search.			
ETHYLENE GLYCOL	For ethylene glycol: Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. [Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells.				
FERRIC OXIDE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.				
Acute Toxicity	○ Carcinogenicity ✓				
Skin Irritation/Corrosion	Reproductivity				
Serious Eye Damage/Irritation	✓ STOT - Single Exposure ○				
Respiratory or Skin sensitisation	✓ STOT - Repeated Exposure ✓				
Mutagenicity	0	Aspiration Hazard	0		

Legend:

🗶 – 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

Skid Grip Crimson - F06525	ENDPOINT		TEST DURATION (HR)		SPECIES	VALU	IE	SOU	RCE
Skid Grip Grimson - 1 00323	Not Available		Not Available		Not Available	Not A	vailable	Not A	Available
	ENDROINE		TEGT BUR ATION (UB)		0050150	V/A1.11	-	2011	205
silica crystalline - quartz	ENDPOINT Not Available		TEST DURATION (HR) Not Available		SPECIES Not Available	VALU	vailable		RCE Available
	NOL Available		Not Available		Not Available	NOLA	valiable	INOL A	Avallable
	ENDPOINT		TEST DURATION (HR)		SPECIES	VALU	JE	SOU	RCE
feldspars	Not Available		Not Available		Not Available		vailable		Available
	ENDPOINT	TEST DURATION (HR)		SPECIES	SPECIES		VALUE		SOURCE
	LC50	96		Fish			8050mg/L		4
ethylene glycol	EC50	48		Crustace	a		5046.29mg/L		5
	EC50	96		Algae or	Algae or other aquatic plants		6500-13000mg	L_	1
	NOEC	552	2	Crustace	a		>=1000mg/L		2
	ENDPOINT	Т	EST DURATION (HR)	SPE	CIES		VALUE		SOURCE
ferric oxide	LC50 96		, ,		Fish		0.05mg		2
	EC50	72		Alga	Algae or other aquatic plants		18mg/L		2
	NOEC	50	04	Fish			0.52mg	ı/L	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - 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

For Silica:

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

Terrestrial Fate: Silicon makes up 25.7% of the Earth♦s crust, by weight, and is the second most abundant element, being exceeded only by oxygen.

For Ammonia:

Atmospheric Fate: Ammonia reacts rapidly with available acids (mainly sulfuric, nitric, and sometimes hydrochloric acid) to form the corresponding salts. Ammonia is persistent in the air.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)

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Ingredient	Bioaccumulation
ethylene glycol	LOW (BCF = 200)

Mobility in soil

Ingredient	Mobility
ethylene glycol	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal.
- ► 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.

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

US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List

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

SILICA CRYSTALLINE - QUARTZ(14808-60-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	
US - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air	
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	Contaminants	
(CRELs)	US - Washington Permissible exposure limits of air contaminants	
US - California Permissible Exposure Limits for Chemical Contaminants	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values	
US - California Proposition 65 - Carcinogens	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants	
US - Hawaii Air Contaminant Limits	US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts	
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)	
US - Idaho - Toxic and Hazardous Substances - Mineral Dust	US ACGIH Threshold Limit Values (TLV) - Carcinogens	
US - Massachusetts - Right To Know Listed Chemicals	US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens	
US - Michigan Exposure Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)	
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1	
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL):	US OSHA Permissible Exposure Levels (PELs) - Table Z3	
Carcinogens	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
US - Oregon Permissible Exposure Limits (Z-1)	US TSCA Chemical Substance Inventory - Interim List of Active Substances	
US - Oregon Permissible Exposure Limits (Z-3)		

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

US - Idaho - Limits for Air Contaminants
US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Washington Permissible exposure limits of air contaminants

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

ETHYLENE GLYCOL(107-21-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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US - Alaska Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs Contaminants (CRELs) US - Washington Permissible exposure limits of air contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals US ACGIH Threshold Limit Values (TLV) Causing Reproductive Toxicity US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California Proposition 65 - Reproductive Toxicity US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - Hawaii Air Contaminant Limits US Clean Air Act - Hazardous Air Pollutants 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 Office of Environmental Health Hazard Assessment Proposition 65 No Significant Risk US - Oregon Permissible Exposure Limits (Z-1) Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for US - Pennsylvania - Hazardous Substance List Chemicals Causing Reproductive Toxicity US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants US - Rhode Island Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US TSCA Chemical Substance Inventory - Interim List of Active Substances US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

FERRIC OXIDE(1309-37-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

FERRIC OXIDE(1309-37-1) 13 FOUND ON THE FOLLOWING REGULATORY LISTS		
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	
US - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air	
US - California Permissible Exposure Limits for Chemical Contaminants	Contaminants	
US - Hawaii Air Contaminant Limits	US - Washington Permissible exposure limits of air contaminants	
US - Idaho - Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants	
US - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV)	
US - Michigan Exposure Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens	
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)	
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1	
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
US - Rhode Island Hazardous Substance List	US TSCA Chemical Substance Inventory - Interim List of Active Substances	

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No

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

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Ethylene glycol	5000	2270

State Regulations

US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

US - CALIFORNIA PROPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Silica, crystalline (airborne particles of respirable size), Ethylene glycol (ingested) Listed

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National Inventory Status

National Inventory	Status
Australia - AICS	Y
Canada - DSL	N (feldspars)
Canada - NDSL	N (silica crystalline - quartz; ethylene glycol; ferric oxide)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (feldspars)
Korea - KECI	Y
New Zealand - NZIoC	Υ
Philippines - PICCS	Y
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

Revision Date	08/24/2018
Initial Date	07/17/2018

CONTACT POINT

Other information

Ingredients with multiple cas numbers

Name	CAS No
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
feldspars	68476-25-5, 12244-10-9

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

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

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible\ Concentration-Short\ Term\ Exposure\ Limit}$

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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^{**}PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES**