



SAFETY DATA SHEET

1. Identification

Product identifier	Invisible Shield 2000
Other means of identification	
Sales Code	CW402
Recommended use	Water repellent sealer
Recommended restrictions	Professional use only.
Manufacturer/Importer/Supplier/Distributor information	
Name	Classic Coatings Systems
Address	255 Citiation Circle Corona, CA 92880
Contact	Carlos
Telephone Number	(714) 720-6954
Fax Number	(951) 279-3344
Emergency Phone Number	Emergency Response Service: (800) 535-5053

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Reproductive toxicity (fertility)	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements



Signal word	Warning
Hazard statement	Suspected of damaging fertility.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethanol		64-17-5	1 - < 3
Alkyl sulfate*		Proprietary*	< 1
Organo tin fatty acid salts*		Proprietary*	< 1
Alkylbenzene sulfonic acid salts*		Proprietary*	< 1

Material name: Invisible Shield 2000

Revision Date: March 12th, 2017

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Chemical name	Common name and synonyms	CAS number	%
Octamethylcyclotetrasiloxane (Impurity)		556-67-2	1 - < 3

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	By heating and fire, harmful vapors/gases may be formed. Nitrogen oxides. (corrosive)
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Eliminate sources of ignition. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. Do not breathe mist or vapor. Avoid prolonged exposure.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Do not keep the container below 0 degrees C to avoid coagulation. Keep in original container. This product contains water. Therefore, please note that there is a possibility that the container corrodes when you keep a long term in a metallic container.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
Organo tin fatty acid salts (CAS Proprietary)	PEL	0.1 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Organo tin fatty acid salts (CAS Proprietary)	STEL	0.2 mg/m3
	TWA	0.1 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
Organo tin fatty acid salts (CAS Proprietary)	TWA	0.1 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US. ACGIH Threshold Limit Values

Organo tin fatty acid salts (CAS Proprietary) Can be absorbed through the skin.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

TIN, ORGANIC COMPOUNDS, AS SN (CAS Proprietary) Can be absorbed through the skin.

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

Organo tin fatty acid salts (CAS Proprietary) Skin designation applies.

US. NIOSH: Pocket Guide to Chemical Hazards

Organo tin fatty acid salts (CAS Proprietary) Can be absorbed through the skin.

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Organo tin fatty acid salts (CAS Proprietary) Can be absorbed through the skin.

Appropriate engineering controls Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Tightly sealed safety glasses according to EN 166.

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing.

Respiratory protection If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Form Liquid.

Color Light yellowish-white.

Odor Slight odor.

Odor threshold Not available.

pH 3 - 6

Melting point/freezing point Not applicable

Initial boiling point and boiling range	212 °F (100 °C) [Water]
Flash point	Not applicable.
Evaporation rate	< 1 (Butyl Acetate=1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	3.1 kPa (25 °C) [Water]
Vapor density	Not applicable
Relative density	1.06 (25 °C)
Solubility(ies)	
Solubility (water)	Dispersion
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	11 mPa·s (25 °C)
Other information	
Molecular weight	Not applicable.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Alkyl sulfate (CAS Proprietary)		
Acute		
<i>Dermal</i>		
LDL0	Rabbit	10 g/kg

Components	Species	Test Results
Oral LD50	Rat	1288 mg/kg
Alkylbenzene sulfonic acid salts (CAS Proprietary)		
Acute		
Oral LD50	Rat	438 mg/kg
Ethanol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
Oral LD50	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg
Octamethylcyclotetrasiloxane (Impurity) (CAS 556-67-2)		
Acute		
<i>Inhalation</i>		
LC50	Rat	> 5000 mg/m3, 4 hours
Oral LD50	Rat	> 5000 mg/kg
Organo tin fatty acid salts (CAS Proprietary)		
Acute		
Oral LD50	Rat	6450 mg/kg
Skin corrosion/irritation	Causes skin irritation. [Alkyl sulfate] [Alkylbenzenesulfonic acid salt] SKIN-RABBIT : 500mg/24hr MILD [Octamethylcyclotetrasiloxane]	
Serious eye damage/eye irritation	Causes serious eye damage. [Alkyl sulfate] Causes serious eye irritation. [Alkylbenzenesulfonic acid salt] Causes eye irritation. [Ethanol] EYE-RABBIT : MILD [Octamethylcyclotetrasiloxane]	
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	No evidence of sensitization [Octamethylcyclotetrasiloxane]	
Germ cell mutagenicity	Negative(Bacteria) [Octamethylcyclotetrasiloxane]	
Carcinogenicity		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not listed.		
Reproductive toxicity	Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size. The significance of these findings to humans is not known. [Octamethylcyclotetrasiloxane]	
Specific target organ toxicity - single exposure	May cause damage to the following organs. Respiratory tract irritation. [Alkylbenzenesulfonic acid salt]	

Specific target organ toxicity - repeated exposure	Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. A two year combined chronic and carcinogenicity assay was conducted on octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6hrs/day, 5days/week for up to 104weeks to 0, 10, 30, 150 or 700ppm of octamethylcyclotetrasiloxane. The increase in incidence of (uterine)endometrial cell hyperplasia and uterine adenomas(benign tumors) were observed in female rats at 700ppm. Since these effects only occurred at 700ppm, a level that greatly exceeds typical workplace or consumer exposure, it is unlikely that industrial, commercial or consumer uses of products containing octamethylcyclotetrasiloxane would result in a significant risk to humans. [Octamethylcyclotetrasiloxane]
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life. [Alkyl sulfate] [Alkylbenzenesulfonic acid salt]
Harmful to aquatic life with long lasting effects. [Alkyl sulfate]
May cause long lasting harmful effects to aquatic life. [Organo tin fatty acid salts]
[Octamethylcyclotetrasiloxane]

Components	Species	Test Results
Alkyl sulfate (CAS Proprietary)		
Aquatic		
Fish	LC50	Rainbow Trout
		3.6 mg/l, 96 hr (Estimated by similar product)
Alkylbenzene sulfonic acid salts (CAS Proprietary)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)
		3.26 - 14.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
		3.2 - 5.6 mg/l, 96 hours
Ethanol (CAS 64-17-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
		7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)
		> 100 mg/l, 96 hours
Persistence and degradability	Not available.	
Bioaccumulative potential	Bio concentration Factor(BCF) / (Fathead minnows) : 12400 [Octamethylcyclotetrasiloxane]	
Mobility in soil	Not available.	
Other adverse effects	Not available.	

13. Disposal considerations

Disposal instructions Follow applicable Federal, State and Local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is not intended to be transported in bulk.

NFPA ratings**Disclaimer**

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

Revision Information

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties

Toxicological Information: Toxicological Data

Ecological Information: Ecotoxicity

Regulatory Information: Regulatory Information

HazReg Data: International Inventories

GHS: Classification