

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND PREPARATION INFORMATION

Manufacturer: Dominion Sure Seal Group of Companies
 6175 Danville Road, Mississauga, Ontario
 Canada, L5T 2H7
 (905)670-5411
 U.S.A. 1-800-265-0790
 Emergency telephone numbers: Dominion Sure Seal (8 AM TO 4 PM EST)
 (905)670-5411
 CANUTEC (24 HR)
 (613) 996 – 6666
 Product Name: Crystal Clear 2K Chip Guard, Part B
 Product Stock: BCG4, Part B
 Product Code: 101400
 Synonyms: Not Applicable
 Chemical Family: Aliphatic Isocyanate
 Molecular Formula: Mixture
 Product Use: Clear Coating
 Prepared by: Regulatory Department
 Preparation Date: June 12, 2010

2. HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
Acetone	67-64-1	50 – 80	500 ppm	5.25 to 8.40 g/kg (oral) >15.7 g/kg (dermal-rbt)	50,100mg/ m ³ (rat, 8h)
Hexamethylene Diisocyanate Homopolymer	28182-81-2	25 - 45	0.005 ppm	>5000 mg/kg (oral-rat) >5000 mg/kg (dermal-rbt)	137 to 1150 mg/m ³ (spray mist - Rat/4H)

The other components of this product are not considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations.

2. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear
Odour	Ketone
Odour Threshold	Not Available
Boiling Point (Deg.C)	56 (Acetone)
Melting/Freezing Point (Deg. C)	Not Available
Vapour Density (Air = 1)	> 1
Specific Gravity (Estimate)	0.905
Vapour Pressure (mm Hg)	Not Available
Evaporation Rate, n-Butyl Acetate = 1	> 1
pH	Not Applicable
Solubility in Water	Partial

4. FIRE AND EXPLOSION HAZARD

Flammability:	Yes
If Yes, Under Which Conditions:	Excessive heat, sparks and open flame.
Flammability Limits in Air (%):	2.5 – 12.8
Flash Point (TCC deg.C)	-18
Autoignition Temperature (Deg. C):	465
Hazardous Combustion Products:	Carbon monoxide, Nitrogen Oxides, Cyanides.
Sensitivity to Mechanical Impact:	Not available. Not expected to be sensitive to mechanical impact.
Rate of Burning:	Not available.
Explosive Power:	Not available.
Sensitivity to Static Discharge:	Expected to be sensitive to static discharge when vapours in air are between the flammability limits.
Extinguishing Media:	Carbon Dioxide, dry chemicals, foam, water fog. In case of a large fire cool containers with water jet in order to prevent pressure build up, autoignition or explosion.

5. REACTIVITY DATA

Chemical Stability:	Yes, under normal conditions.
Compatibility with Other Substances:	No, with strong oxidizing agents.
Hazardous Products of Decomposition:	Carbon monoxide, Nitrogen oxides, Cyanides.
Hazardous Polymerisation:	Will not occur.

6. TOXICOLOGICAL PROPERTIES

Route of Entry:	
Skin Contact:	Yes
Skin Absorption:	Yes
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes
Effects of Exposure:	Exposure to spray mist is harmful and is irritating to the eyes, nose, throat and respiratory tract. Effects may be delayed. Symptoms may include coughing, difficult breathing, a feeling of tightness in the chest or asthma attack. Eye contact can cause tearing, eye reddening and swelling. Chronic eye exposure may result in corneal opacity. If eye is affected by liquid, corneal damage can occur and injury is slow to heal. Prolonged exposure to high acetone vapor concentrations may be harmful and cause adverse effects including dizziness, drowsiness, headache and nausea. Skin contact may cause reddening, itching, drying, cracking and blistering. Prolonged contact may lead to allergic dermatitis. Swallowing may cause burning of the mouth and stomach. Other possible effects are abdominal pain, nausea and diarrhea.
Carcinogenicity of material:	No information is available and no adverse Carcinogenic effects are anticipated.
Reproductive effects:	No information is available and no adverse Reproductive effects are anticipated.
Teratogenicity:	No information is available and no adverse Teratogenic effects are anticipated.
Mutagenicity:	No information is available and no adverse Mutagenic effects are anticipated.

Sensitization of the material: Prolonged and repeated exposure can cause skin and respiratory sensitization in susceptible individuals. Respiratory sensitization will cause susceptible individuals to react to a later exposure to product at levels well below the TLV. Symptoms include chest tightness, wheezing, cough, shortness of breath or asthma attack; could be immediate or delayed.

7. PREVENTIVE MEASURES

Eye Protection: Tightly fitting safety goggles. Eye wash bottle with pure water. Contact lenses should not be worn when working with this product.

Skin Protection: Wear impervious gloves and clothing.

Respiratory Protection: Wear an approved air-purifying respirator with organic vapour cartridges for mists and vapours during spray operations or if exposure exceeds occupational exposure limits (Acetone: 500 ppm, Isocyanates: 0.005 ppm).

Engineering Controls: Exhaust ventilation is recommended if used indoors on a continuous basis or during spray application.

Leak/Spill Clean-Up Procedures: Ventilate enclosed spaces. Collect product for disposal. Do not use combustible materials such as sawdust as an absorbent. Eliminate all sources of ignition. . Decontaminate area with solution: 93% water, 5% concentrated ammonia, 2% detergent. Let stand for at least 15 minutes. Notify applicable government authority if release is reportable or could adversely affect the environment.

Storage Instructions: Keep away from moisture, heat, sparks, and open flames.

8. FIRST AID MEASURES

Inhalation: If affected by inhalation of vapour or spray mist, move to fresh air. If breathing becomes difficult, get medical attention.

Skin Contact: For skin, wash thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing thoroughly before re-use If irritation persists, get medical attention.

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Crystal Clear 2K Chip Guard BCG4, Part B

Eye Contact:	In case of eye contact, immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.
Ingestion:	If swallowed, do not induce vomiting. Rinse the mouth. Drink 1-2 glasses of milk to dilute product. Water may be used instead but not as effective. Obtain medical attention immediately.
General Advice:	Not data available.

9. TRANSPORT INFORMATION

Proper Shipping Name:	Coating Solution
UN Number:	1139
Class or Division:	3
Sub Risk:	Not Applicable
Packing Group:	II

NOTE: With an inner packaging < 1.0 L, this component may be renamed "Consumer Commodity" and reclassified as an ORM-D material as per DOT 173.150 (b) & (c).

10. REGULATORY INFORMATION

U.S. Federal Regulations

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Hazard Category:

Irritant – skin and eyes; Respiratory and skin sensitizer; Flammable; target organ effects reported

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Hazardous Substances:

Chemical Name	CAS Number	Reportable Quantity (RQ)
None	NA	NA

CAA, Section 112 Hazardous Air Pollutants:

Chemical Name	CAS Number	Concentration
None	NA	NA

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA (EPCRA) Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard: Yes
 Delayed Hazard: Yes
 Fire Hazard: Yes
 Pressure Hazard: No
 Reactivity Hazard: No

This product contains the following extremely hazardous substance(s) subject to the reporting requirements of SARA (EPCRA) Section 302:

Chemical Name	CAS Number	Concentration
None	NA	NA

This product contains the following toxic chemical(s) subject to reporting requirements of SARA (EPCRA) Section 313 (40 CFR 372)

Chemical Name	CAS Number	Concentration
None	NA	NA

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Component	CAS Number	Maximum %
None	NA	NA

International Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS):

B2, D2A, D2B

Canadian Environmental Protection Act (DSL): All of the components of this product are included on the Canadian Domestic Substances list (DSL).

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

11. OTHER INFORMATION

VOC Compliance Statement:

Part B VOC Content – Less Exempts: 0 g/l (0 lb/gal)
Part B VOC Content – Total Material: 0 g/l (0 lb/gal)
Part B Density: 0.905 g/ml
Part B Volatiles Content: 65 % by weight
Part B Exempt Content: 65 % by weight (74.5 % by volume)

Coating Category: Clear Coating

Mixed Kit VOC Content, as applied:

– **Less Exempts:** 197 g/l (1.64 lb/gal)
– **Total Material:** 90 g/l (0.75 lb/gal)

Ready to apply kit VOC content meets the 250 g/l (2.1 lb/gal) limit for Clear Coatings. California and Canada compliant. Do not thin with solvents.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. **This MSDS is valid for three years.**

The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Dominion Sure Seal assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material.