SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015



Date Prepared: 11/13/2015

SDS No: BCG4_Part A Crystal Clear 2K Chip Guard_ENG

Date Revised: 08/30/2017

Revision No: 2

BCG4 Part A Crystal Clear 2K Chip Guard

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BCG4 Part A Crystal Clear 2K Chip Guard

Product Description: Part A Crystal Clear 2K Chip Guard, 473 ml / 16 fl oz US

General Use: Clear Coating - Vehicle Refinishing Product

Product Stock/Code: BCG4 / 101004 (Kit: 946 mL / 32 fl oz US)

Chemical Family: Solvent-based / À base de solvant

Molecular Formula: Mixture / Mélange

Manufacturer / Supplier

Dominion Sure Seal Ltd. 6175 Danville Road, Mississauga Ontario, Canada L5T 2H7 Fax: 905-670-5174

www.dominionsureseal.com

Customer Service: 905-670-5411

Emergency Telephone Numbers (24 hour)

CANUTEC: (613) 996-6666 CHEMTREC: (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The classification and label elements stated below were prepared in accordance with the USA OSHA Hazard Communication Standard (29 CFR 1910.1200; Hazcom 2012) and the Canadian WHMIS regulations (Hazardous Products Regulations; WHMIS 2015). This information may be different from the actual product label information for labels that are regulated by other agencies.

Health hazards:

Eye Irritation, Category 2
Target Organ Toxicity (Single exposure), Category 3 (Narcotic Effects)
Target Organ Toxicity (Repeated exposure), Category 2
Reproductive Toxicity, Category 2

Physical hazards:

Flammable Liquids, Category 2

Label elements

Hazardous components for labelling:

Acetone, Propylene glycol methyl ether acetate and Toluene







Exclamation mark



Health hazard

Signal Word: DANGER

Hazard statement(s)

- H225: Highly flammable liquid and vapour.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H373: May cause damage to central nervous system through prolonged or repeated exposure.
- H361: Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

Prevention:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof electrical, ventilating and lighting equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P264: Wash hands thoroughly after handling.
- P260: Do not breathe mist, vapours or spray.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use dry chemical or foam to extinguish.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with applicable local, regional and/or national regulations.

Hazards Not Otherwise Classified: No data available.

Emergency Overview

Immediate concerns: Flammable liquid and vapor. Causes serious eye irritation. Vapours may cause drowsiness and dizziness. Repeated or prolonged inhalation may cause toxic effects. Possible risk of harm to the unborn child.

Comments: See sections 9 and 10 for more detailed information on physicochemical effects.

See section 11 for more detailed information on health effects.

See sections 12 for more detailed information on environmental effects.

The actual container label may not include the above label elements. The labeling shown above applies to products used solely for industrial / professional use.

Consumer products should be labeled in accordance with the Canadian Consumer Chemicals and Containers Regulations and US Consumer Product Safety Commission regulations. Consumer product labeling takes precedence over Canadian WHMIS 2015 and OSHA Hazcom 2012 Hazard Communication labeling.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS number
Acetone	25 - 29	67-64-1
Propylene glycol methyl ether acetate	10 - 12	108-65-6
Toluene	6 - 8	108-88-3

Comments: There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the product and hence require reporting in this section.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and wash before reuse.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

Signs and Symptoms of Overexposure

Eye Contact: Contact causes serious eye irritation. Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin Contact: Substance does not generally irritate and is only mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Ingestion: Substance may be harmful if swallowed. May cause irritation. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Inhalation: High vapor or spray mist concentrations may be harmful if inhaled. May cause headaches and dizziness. High vapor concentrations may cause drowsiness.

Notes to Physician: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Additional Information: No data available.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Product can be ignited by static discharge.

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Procedures: Containers can build up pressure if exposed to heat (fire).

Fire Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand,

(MSHA/NIOSH approved or equivalent) and full protective gear.

Sensitivity to Static Discharge: Product is sensitive to static discharge.

Sensitivity to Mechanical Impact: Product is not sensitive to mechanical impact.

6. ACCIDENTAL RELEASE MEASURES

Small Spill: Eliminate all ignition sources. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly.

Environmental Precautions

Water Spill: Do not discharge into drains/surface waters/groundwater.

Land Spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Special Protective Equipment: Clean up spills immediately, observing precautions in Protective Equipment section 8.

7. HANDLING AND STORAGE

General Procedures: Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Ensure thorough ventilation of stores and work areas.

Handling: Do not use in the presence of open flame or spark. Use only in a well ventilated area. Wear recommended personal protective equipment. Keep container closed when not in use. Avoid breathing vapours or mist. Avoid contact with eyes, skin, and clothing. After handling, always wash hands thoroughly with soap and water.

Storage: Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight. Protect from physical damage. Keep container tightly closed and in a well-ventilated place. Store in a cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
Occupational Exposure Limits			nits	
Chemical Name	Туре	Type ppm mg/m³		mg/m³
	OSHA PEL	TWA	1000	2400
Anakana	ACCTU TIV	TWA	500	1188
Acetone ACGIH TLV NIOSH RE	ACGIH ILV	STEL	750	1782
	NIOSH REL	TWA	250	590
	USA OEL	_	[1]	[1]
ropylene glycol methyl ether acetate	TWA	50	275	
	EU OEL		100	550
	OCUA DEL	TWA	200	
OSHA PEL	OSHA PEL	STEL	300	
Toluene	ACGIH TLV	TWA	20	75
	NTOCH PT	TWA	100	375
	NIOSH REL	STEL	150	560

Footnotes:

Engineering Controls: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles). Contact lenses should not be worn when working with this product. Eye wash fountains should be readily available to areas of use and handling.

Skin Contact: Wear chemical resistant gloves.

Respiratory: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Protective Clothing: Wear protective clothing as necessary to prevent contact.

Work Hygienic Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid
Odor : Ketone

Odor Threshold : Not Available

Appearance : Viscous liquid

^{1.} This material does not have established exposure limits in the USA under OSHA, NIOSH, ACGIH.

Color : Colourless

pH : No data available.

% Volatiles : 45 % w/w

Flash Point and Method : -18°C Setaflash Closed Cup

Flammable Limits : 2.5 to 12.8

Notes: Based on data for acetone.

Autoignition Temperature: 465°C

Notes: Based on data for acetone.

Vapor Pressure : 24 kPa (184 mm Hg) [Acetone] at 20°C

Vapor Density :>1

Boiling Point : 56 °C (Acetone)

Freezing Point : Not Available

Melting Point : Not Available

Solubility in Water : Partial

Evaporation Rate

(n-butyl acetate = 1) :> 1

Density : 1.00±0.02g/ml at 20°C **Viscosity** : 200 to 500 cps at 25°C

VOC Content : 274 g/l (2.28 lb/gal), less exempt solvents

Oxidizing Properties : None

Comments:

VOC Compliance Statement - BCG4, Part A

Part A VOC Content: Less Exempts: 274 g/l (2.28 lb/gal)

Total Material: 180 g/l (1.50 lb/gal)

Part A Density: 1.00 g/ml **Part A Total Volatiles:** 45 % w/w

Part A Exempt Content: 27 % w/w; 34 % v/v (acetone)
Mixed Kit VOC Content: Less Exempts: 180 g/l (1.50 lb/gal)
Total Material: 90 g/l (0.75 lb/gal)

VOC Regulation: VOC Concentration Limits for Automotive Refinishing

Products Regulations - Canada

Coating Category: Clear Coating

The ready to apply kit VOC content meets the 250 g/l (2.1 lb/gal) limit for

Clear Coatings. Canada compliant. Do not thin with solvents

VOC Regulation: SCAQMD Rule 1151 - Motor Vehicle and Mobile Equipment

Non-Assembly Line Coating Operations - California

Coating Category: Clear Coating

The ready to apply kit VOC content meets the 250 g/l (2.1 lb/gal) limit for

Clear Coatings. California compliant. Do not thin with solvents.

10. STABILITY AND REACTIVITY

Reactive Hazard: No

Hazardous Polymerization: Not expected to occur.

Stability: Stable.

Conditions to Avoid: Keep away from flames and incompatible materials. Keep away from flames and any object

that sparks.

Possibility of Hazardous Reactions: Not available.

Hazardous Decomposition Products: Carbon Monoxide and other toxic vapors.

Incompatible Materials: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	Oral LD ₅₀ mg/kg(rat)	Dermal LD ₅₀ mg/kg(rabbit)	Inhalation LC ₅₀ mg/l
Acetone	8400 5250(mouse) 5300(rabbit)	>15,700	50.1(rat;8h) 44.0(mouse;4h)
Propylene glycol methyl ether acetate	>10,000 8532 13,700	>5000(rat) >19,400(rbt)	10.8(rat;3h) 23.5(rat;6h) (no deaths)
Toluene	7000 6400 5500	12,270	49.0(rat;4h) 30.0(mouse;2h) 19.9(mouse;7h)

Acute Toxicity - Dermal LD₅₀: Based on available ingredient data, the classification criteria for Acute Dermal Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute Toxicity - Oral LD₅₀: Based on available ingredient data, the classification criteria for Acute Oral Toxicity are not met for this mixture. The calculated ATE is >2000 mg/kg.

Acute Toxicity - Inhalation LC₅₀: Based on available ingredient data, the classification criteria for Acute Toxicity - inhalation are not met for this mixture. The calculated ATE is >20 mg/l/4h (vapours) and >5 mg/l/4h (mists). High vapor concentrations may be harmful if inhaled. Excessive vapor concentrations are attainable. Saturated vapors can be encountered in confined spaces and/or under conditions of poor ventilation.

Notes: < 5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity. No additional toxicology information is available for this product itself. (See Component Toxicity Information). **Primary Routes of Entry:**

Eye contact. Inhalation. Skin contact. Ingestion.

Skin Irritation / Corrosion: Based on available data, the classification criteria for skin irritation are not met for this mixture. Substance does not generally irritate and is only mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Eye Irritation / Serious Eye Damage: Contains: Acetone. Contact causes serious eye irritation. The mixture is classified as: Eye Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as eye irritant, category 2). Symptoms may include pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Respiratory / Skin Sensitizer: Based on available data, the classification criteria for skin/respiratory sensitization are not met for this mixture (< 0.1% ingredients classified as a skin sensitizer, category 1 or subcategory 1A and < 1.0% ingredients classified as a skin/respiratory sensitizer, sub-category 1B).

Germ Cell Mutagenicity: Based on available data, the classification criteria for Germ Cell Mutagenicity are not met for this mixture (< 0.1% ingredients classified as Germ Cell Mutagen, category 1A or 1B and < 1.0% ingredients classified as Germ Cell Mutagen, category 2).

Carcinogenicity

Chemical Name	NTP status	IARC status	OSHA status	Other
Acetone				A4 (ACGIH)
Propylene glycol methyl ether acetate				
Toluene		3		A4 (ACGIH)

Notes: Based on available data, the classification criteria for Carcinogenicity are not met for this mixture (< 0.1% ingredients classified as a Carcinogen, category 1 or 2).

Reproductive Toxicity: Based on available data, the classification criteria for Reproductive Toxicity are not met for this mixture (< 0.1% ingredients classified as Reproductive Toxicity, category 1 or 2).

Specific Target Organ Toxicity - Single Exposure: Contains: Acetone and Toluene. The mixture is classified as: Specific Target Organ Toxicity - Single Exposure, category 3, based on summation of ingredient data using the applicable cut-off/concentration limits (≥ 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3 [Narcotic Effects]). Can cause central nervous system depression (including unconsciousness). High vapor concentrations may cause drowsiness. May cause headaches and dizziness.

Specific Target Organ Toxicity - Repeated Exposure: The mixture is classified as: Specific Target Organ Toxicity - Repeated Exposure, category 2, based on ingredient data using the applicable cut-off/concentration limits (≥ 1.0% ingredients classified as Specific Target Organ Toxicity - Repeated Exposure, category 2). Prolonged inhalation may be harmful. Chronic exposure to organic solvents such as Toluene have been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Aspiration Hazard: Based on available data, the classification criteria for Aspiration Hazard are not met for this mixture (< 10% ingredients classified as an Aspiration Hazard, category 1 and/or mixture viscosity > 20.5 mm²/s at 40 °C).

12. ECOLOGICAL INFORMATION

Environmental Data: No data available.

Ecotoxicological Information: No data available.

Bioaccumulation/Accumulation: No data available.

Distribution: No data available.

Aquatic Toxicity (Acute): No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Comply with applicable local, state or international regulations concerning solid or hazardous waste disposal and/or container disposal. Do not discharge substance/product into sewer system.

Product Disposal: Empty containers retain product residue; observe all precautions for product. Decontaminate containers prior to disposal.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : Paint

Primary Hazard Class/Division: 3

UN/NA Number : 1263

Packing Group : II

Other Shipping Information:

With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Air (ICAO/IATA)

Shipping Name : Paint

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

Subsidiary Risk : None

Label : Flammable Liquid

Vessel (IMO/IMDG)

Shipping Name : Paint

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

Marine Pollutant : None

Note: With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

Canadian Transportation of Dangerous Goods Regulations

Shipping Name : Paint

UN/NA Number : 1263

Primary Hazard Class/Division: 3

Packing Group : II

TDG Note:

With an inner packaging < 5.0 L, this component may be shipped as a Limited Quantity as per TDG Section 1.17.

15. REGULATORY INFORMATION

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health Hazards: Eye Irritation, Narcotic Effects, Reproductive Toxicity, Target Organ Toxicity (Repeated exposure)

311/312 Physical Hazards: Flammable Liquids

Fire Hazard : Yes Sudden Release of Pressure : No Reactive Hazard : No **Product Acute Toxicity**: Yes **Product Chronic Toxicity**: Yes

EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt.%	CAS number
Toluene	6 - 8	108-88-3

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status:

This product contains no listed extremely hazardous substances that are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical Name	Wt.%	RQ
Acetone	25 - 29	5,000
Toluene	6 - 8	1,000

TSCA (The Toxic Substances Control Act)

TSCA Status:

All components are included or are otherwise exempt from inclusion on this inventory.

CAA 112(b) - Hazardous Air Pollutants

Chemical Name	Wt.%	CAS number
Toluene	6 - 8	108-88-3

CAA 112(r) - List of Substances for Accidental Release Prevention:

This product contains no chemicals subject to CAA 112(r).

California Proposition 65

Chemical Name	Wt.%	Listed
Toluene	6 - 8	Developmental ToxicityFemale Reproductive

OSHA Hazard Communication Standard (29 CFR 1910.1200):

OSHA Status: Hazardous Product (See Section 2 for details).

This product has been classified in accordance with the hazard criteria of the USA OSHA Hazard Communication Standard (29CFR 1910.1200) and the Safety Data Sheet contains all the information required by the OSHA Hazard Communication Standard (HazCom 2012).

CANADA

WHMIS Hazard Symbol and Classification

See Section 2 for details.

WHMIS Regulatory Status:

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

WHMIS Classification:

WHMIS 2015 (Canada) Status: Hazardous Product (See Section 2 for details).

CEPA - National Pollutant Release Inventory (NPRI):

Name	CAS No.	NPRI Part No.
Toluene	108-88-3	1A, 5 (VOC)
Propylene glycol methyl ether acetate	108-65-6	5 (VOC)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):

All components are included or are otherwise exempt from inclusion on this inventory.

Comments VOC Content -- See section 9.

16. OTHER INFORMATION

Reason for Issue: NEW

Approved By: Jim Gordon **Title:** R&D Chemist / Chemiste de R&D

Prepared By: Regulatory Compliance / Conformité réglementaire Date Revised: 08/30/2017

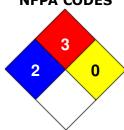
Information Contact: 905-670-5411

Revision Summary: This MSDS replaces the 04/25/2016 MSDS. Revised: **Section 2:** Hazards Not Otherwise Classified, Hazards Not Otherwise Classified. **Section 9:** Boiling Point , Flash Point and Method , Vapor Pressure . **Section 15:** 311/312 Physical Hazards, 311/312 Health Hazards.

HMIS RATING

HEALTH *	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	1 G





NFPA 30 / 30B Storage Classification: Flammable Liquid IB

Manufacturer Supplemental Notes: None

Data Sources: Not Available

Additional SDS Information:

N/AV Not Available N/AP Not Applicable ND Not yet determined

ACGIH American Conference of Governmental Industrial Hygienists

CAA The Clean Air Act

CCCR The Consumer Chemicals and Containers Regulations

CEPA The Canadian Environmental Protection Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EPCRA The Emergency Planning and Community Right-To-Know Act

IARC International Agency for Research on Cancer

MSHA Mine Safety and Health Administration

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA The Occupational Safety and Health Administration

SARA The Superfund Amendments and Reauthorization Act

WHMIS Workplace Hazardous Materials Information System

General Statements: None

Comments: None

Manufacturer Disclaimer: 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. No responsibility is assumed 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 this material.