SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015

Date issued : 11/13/2015
SDS number : BCG4_Part A Crystal Clear 2K Chip Guard_EN
Date revised : 06/22/2023
Revision number : 3

BCG4 Part A Crystal Clear 2K Chip Guard

1. Identification

Product identifier: BCG4 Part A Crystal Clear 2K Chip Guard
Product description: Part A Crystal Clear 2K Chip Guard, 473 ml / 16 fl oz US
Relevant identified uses of the substance or mixture and uses advised against: Clear Coating - Vehicle Refinishing Product
Other means of identification - product Stock / Code: BCG4 / 101004 (Kit: 946 mL / 32 fl oz US)
Chemical family: Solvent based
Molecular formula: Mixture

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 number (24 hour)
CANUTEC : (613) 996-6666
CHEMTREC : (800) 424-9300

2. Hazard 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
Specific Target Organ Toxicity (Single exposure), Category 3 (Narcotic Effects)
Specific Target Organ Toxicity (Repeated exposure), Category 2
Reproductive Toxicity, Category 2

Physical hazards:

Flammable Liquids, Category 2

Label elements

Hazardous components for labelling:
acetone, 2-methoxy-1-methylethyl acetate and toluene

Flame

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 hearing organs and central nervous system through prolonged or repeated exposure.
H361: Suspected of damaging 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.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating or 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 and eye 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:

P233: Keep container tightly closed.
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	% w/w	CAS No.
acetone	25 - 29	67-64-1
2-methoxy-1-methylethyl acetate	10 - 12	108-65-6
toluene	6 - 8	108-88-3

Comments: The actual concentration is withheld as a trade secret.
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: 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: 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.

Most important symptoms and effects, both acute and delayed

Eye: 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: 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.

Indication of immediate medical attention and special treatment needed, if necessary: 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

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

Suitable 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.

Precautions for safe 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.

Conditions for safe 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 controls

Control parameters				
	Occupational exposure limit values			
Chemical name	**Type**		**ppm**	**mg/m³**
acetone	**OSHA PEL**	**TWA**	1000	2400
	ACGIH TLV	**TWA**	500	1188
		STEL	750	1782
	NIOSH REL	**TWA**	250	590
2-methoxy-1-methylethyl acetate	**USA OEL**	**-**	-- [1]	-- [1]
	EU OEL	**TWA**	50	275
		STEL	100	550
toluene	**OSHA PEL**	**TWA**	200	--
		STEL	300	--
	ACGIH TLV	**TWA**	20	75
	NIOSH REL	**TWA**	100	375
		STEL	150	560

Footnotes:
1. This material does not have established exposure limits in the USA under OSHA, NIOSH, ACGIH.

Appropriate 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.

Individual protection measures, such as personal protective equipment

Eye / face protection: 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: Wear chemical resistant gloves.

Respiratory protection: 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.

Skin protection - other: Wear protective clothing as necessary to prevent contact.

Occupational hygiene 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

Odour: Ketone

Odour threshold: Not Available

Appearance: Viscous liquid

Colour: Colourless

pH: No data available.

% Volatiles: 45 % w/w

Flash point: -18°C Setaflash Closed Cup

Lower explosion limit / flammability limit: 2.5

Upper explosion limit / flammability limit: 12.8

Explosion limit / flammability limit notes: Based on data for acetone

Auto-ignition temperature: 465°C

Notes: Based on data for acetone

Vapour pressure: 24 kPa (184 mm Hg) [acetone] at 20°C

Relative vapour density: > 1

Initial boiling point and boiling range: 56°C (acetone)

Freezing point: No data available.

Melting point: No data available.

Decomposition temperature: No data available.

Solubility: Partial

Partition coefficient n-octanol/water (logarithmic value): No data available.

Evaporation rate (n-butyl acetate = 1): > 1

Density: 1.00±0.02g/ml at 20°C

Particle characteristics: No data available.

Relative density: No data available.

Viscosity (kinematic or dynamic): 200 to 500 cps at 25°C

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

Flammability: Flammable Liquids

Comments:

VOC Compliance Statement – BCG4, Part A

Part A Actual VOC:	Less Exempts: 274 g/l (2.28 lb/gal)
Part A Regulatory VOC:	Total Material: 180 g/l (1.50 lb/gal)
Part A VOC Content:	18 % w/w
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:	Regulatory VOC: 180 g/l (1.50 lb/gal), less exempt solvents [Actual VOC: 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

Reactivity: No

Dangerous polymerization: Not expected to occur.

Chemical 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	LD_{50} (oral) mg/kg(rat)	LD_{50} (dermal) mg/kg(rabbit)	LC_{50} (inhalation) mg/l
acetone	8400 5250(mouse) 5300(rabbit)	>15,700	50.1(rat;8h) 44.0(mouse;4h)
2-methoxy-1-methylethyl 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 dermal toxicity LD_{50}: 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 oral toxicity LD_{50}: 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 inhalation toxicity LC_{50}: 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).
Information on likely routes of exposure:
Eye contact. Inhalation. Skin contact. Ingestion.

Skin corrosion / irritation: 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).

Serious eye damage / irritation: 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 or skin sensitization: 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 sub-category 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	IARC	OSHA	Status - other
acetone	--	--	--	A4 (ACGIH)
2-methoxy-1-methylethyl 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: The mixture is classified as: Reproductive Toxicity, category 2 based on ingredient data using the applicable cut-off/concentration limits (≥ 0.1% ingredients classified as Reproductive Toxicity, category 2). May cause adverse reproductive effects. Possible risk of harm to the unborn child (Toluene).

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: Contains: toluene. 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 mm^2/s at 40 °C).

12. Ecological information

Ecotoxicological information: No data available.

Aquatic toxicity, both acute and chronic: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

Mobility in soil: No data available.

13. Disposal considerations

Disposal methods: 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

USA Department of Transport Regulations (DOT)

UN proper shipping name: PAINT

Transport hazard class(es): 3

UN number: 1263

Packing group, if applicable: II

DOT other shipping information:
With an inner packaging < 5.0 L, this product may be shipped as a Limited Quantity.

ICAO - air

UN proper shipping name: PAINT

UN number: 1263

Transport hazard class(es): 3

Packing group, if applicable: II

Subsidiary risks: None

Hazard label: Flammable Liquid

IMDG - sea

UN proper shipping name: PAINT

UN number: 1263

Transport hazard class(es): 3

Packing group, if applicable: II

Environmental hazards - marine pollutant: None

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

Canadian Transport of Dangerouse Goods Regulations (TDG)

UN proper shipping name: PAINT

UN number: 1263

Transport hazard class(es): 3

Packing group, if applicable: II

TDG other shipping information:
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

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
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	% w/w	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	% w/w	CAS No.
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:

⚠ **WARNING**: This product can expose you to chemicals including the chemical(s) listed below, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical name	% w/w	Listed
toluene	6 - 8	• Developmental Toxicity • Female Reproductive

USA OSHA Hazard Communication Standard (29CFR 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)
2-methoxy-1-methylethyl 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: The Safety Data Sheet was updated.

Approved by: Jim Gordon **Title:** R&D Chemist

Prepared by : Regulatory Compliance

Date revised: 06/22/2023

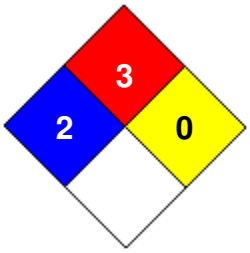
Information contact: 905-670-5411

Revision summary: This SDS replaces the 06/22/2023 SDS.

HMIS RATING

HEALTH	* 2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

NFPA CODES



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.