

SAFETY DATA SHEET

Prepared according to USA OSHA Hazcom 2012 / Canada WHMIS 2015



Date Prepared : 06/12/2015
SDS No : 100503 Chip Guard - Beige 503g_ENG
Date Revised : 12/12/2016
Revision No : 3

100503 Chip Guard - Beige

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : 100503 Chip Guard - Beige
Product Description : Rocker Guard Coating, Beige, Aerosol Coating 503 g / 17.7 oz
General Use : Aerosol Coating, Automotive Use Only
Product Stock/Code : 100503
Chemical Family : Organic Coating / Enduit organique
Molecular Formula : Mixture / Mélange

Manufacturer / Supplier

Kardol Quality Products
9933 Alliance Road
Cincinnati, Ohio
45242

Emergency Telephone Numbers (24 hour)

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
Skin 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 Aerosols, Category 1
Gases Under Pressure
Simple Asphyxiants, Category 1

Label elements

Hazardous components for labelling:
Acetone and Toluene



Flame



Gas
cylinder



Exclamation
mark



Health
hazard

Signal Word: DANGER

Hazard statement(s)

H222: Extremely flammable aerosol.
H280: Contains gas under pressure; may explode if heated.
H319: Causes serious eye irritation.
H315: Causes skin 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.
H351: Suspected of causing cancer.
H600: May displace oxygen and cause rapid suffocation.

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.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
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.
P310: Immediately call a POISON CENTER or doctor/physician.
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing.
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.

Storage:

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
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 aerosol. Harmful if inhaled. Possible risk of harm to the unborn child. Causes serious eye irritation. Irritating to skin. Vapours may cause drowsiness and dizziness. Vapor reduces oxygen

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availability for breathing.

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	43 - 45	67-64-1
Toluene	16 - 18	108-88-3
Propane	14 - 16	74-98-6
Isobutane	6 - 8	75-28-5
Titanium dioxide	1 - 3	13463-67-7

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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

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: Contact causes skin irritation. 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 gas, vapor, mist or dust concentrations may be harmful if inhaled. May cause headaches and dizziness. High vapor concentrations may cause drowsiness. High vapor concentrations can displace oxygen in enclosed spaces and cause asphyxiation.

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: Extremely flammable aerosol. Can readily form explosive mixtures 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 sensitive to mechanical impact. Do not puncture container. Contents under pressure. Do not expose to heat or store above 120 °F (49 °C).

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 flush to sewer.

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.

Handling: Contents under pressure. Do not expose to heat or store above 120 °F (49 °C). Use only in a well ventilated area. Do not use in the presence of open flame or spark. Do not puncture container. Do not breath vapors or spray mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Storage: Keep away from heat and flame. Store in a cool dry place. Container may explode if heated. Do not incinerate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

OSHA / WHMIS 2015 HAZARDOUS COMPONENTS				
Occupational Exposure Limits				
Chemical Name	Type		ppm	mg/m ³
Acetone	OSHA PEL	TWA	1000	2400
	ACGIH TLV	TWA	500	1188
		STEL	750	1782
	NIOSH REL	TWA	250	590
Toluene	OSHA PEL	TWA	200	--
		STEL	300	--
	ACGIH TLV	TWA	20	75
	NIOSH REL	TWA	100	375
STEL		150	560	
Propane	OSHA PEL	TWA	1000	1800
	ACGIH TLV	TWA	1000	--
	NIOSH REL	TWA	1000	1800
Isobutane	ACGIH TLV	TWA	1000	--
	NIOSH REL	TWA	800	1900
Titanium dioxide	OSHA PEL	TWA	-- [1]	15 [1]
	ACGIH TLV	TWA	-- [1]	10 [1]

Footnotes:
1. Dust - total fraction.

Engineering Controls: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Personal Protective Equipment

Eyes and Face: Wear safety glasses with side shields (or goggles).

Skin Contact: Wear chemical resistant gloves.

Respiratory: 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.

Protective Clothing: Not applicable for aerosol containers.

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, without aerosol propellants

Odor : Ketone

Odor Threshold : No data available.

Appearance : Aerosol

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Color	: Beige
pH	: Not Applicable
% Volatiles	: 80 to 85 % w/w
Flash Point and Method	: -18°C Setaflash Closed Cup, Acetone [lowest known value of aerosol concentrate]
Flammable Limits	: 1.0 to 12.8

Notes: Based on data for acetone.

Autoignition Temperature : 480°C

Notes: Based on data for acetone [lowest known value of aerosol concentrate]

Vapor Pressure	: 50 - 65 psig at 20°C
Vapor Density	: > 1 (air = 1)
Boiling Point	: 56°C, Acetone [lowest known value of aerosol concentrate]
Freezing Point	: No data available.
Melting Point	: No data available.
Solubility in Water	: Partial
Evaporation Rate (n-butyl acetate = 1)	: > 1
Density	: 0.97±0.02g/ml at 20°C
Notes:	An estimate for the aerosol concentrate density.
Viscosity	: > 100 cps
VOC Content	: Summarized below
Oxidizing Properties	: None

Comments:

Flammability Statement:

The flammability of an aerosol is determined by its flame extension and/or flashback.

Flammability:	Yes
Aerosol Flame Projection:	> 15 cm but < 100 cm
Flashback:	None

VOC Compliance Statement

Total Volatiles:	< 660 g/l 80 - 85% w/w
VOC Content:	Product-Weighted Reactivity (PWR): < 1.2 g O ₃ /g product < 40% w/w (< 270 g/l)
VOC Regulation:	USA National VOC Emission Standards for Aerosol Coatings – 40CFR PART 59 SUBPART E
Coating Category:	Flat Coatings
The VOC content meets the 1.20 PWR category limit for Flat Coatings. USA compliant.	
VOC Regulation:	California – Regulation for Reducing the Ozone from Aerosol Coating Product Emissions – Title 17, California
Coating Category:	Flexible Coating
The VOC content meets the 1.60 PWR category limit for Flexible Coatings. California compliant.	

10. STABILITY AND REACTIVITY

Reactive Hazard : No

Hazardous Polymerization: Not expected to occur.

Stability: Stable.

Conditions to Avoid: Keep away from flames and any object that sparks. Container may explode if heated.

Possibility of Hazardous Reactions: No data 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)
Toluene	7000 6400 5500	12,270	49.0(rat;4h) 30.0(mouse;2h) 19.9(mouse;7h)
Propane	Not Applicable	Not Applicable	>20,000 ppm (rat,4h)
Isobutane	Not Applicable	Not Applicable	142.5 ppm (rat,4h)
Titanium dioxide	> 10,000	No data available.	No data available.

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).

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Notes: 20% 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).

Skin Irritation / Corrosion: Contains: Toluene. Causes skin irritation. The mixture is classified as: Skin Irritant, category 2, based on summation of ingredient data (>10% ingredients classified as skin irritant, category 2). 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). Liquid, aerosols and vapors of this product are irritating and can cause 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 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 status	IARC status	OSHA status	Other
Acetone	--	--	--	A4 (ACGIH)
Toluene	--	3	--	A4 (ACGIH)
Propane	--	--	--	--
Isobutane	--	--	--	--
Titanium dioxide	--	2B	--	A4 (ACGIH)

Notes: Based on available data, the classification criteria for Carcinogenicity are not met for this mixture. Titanium dioxide is listed as Group 2B (possibly carcinogenic to humans). Titanium dioxide: applies only to respirable dust. The Titanium dioxide in this product is inextricably bound and therefore presents no potential for exposure during normal conditions of use of this product or in a foreseeable emergency.

Reproductive Toxicity: The mixture is classified as: Reproductive Toxicity, category 2 based on ingredient data using the applicable cut-off/concentration limits (\geq 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: Toluene and Solvent naphtha light aliphatic. 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 (\geq 20% summation of all ingredients classified as Specific Target Organ Toxicity - Single Exposure, category 3). 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 (\geq 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

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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: When container is empty, press button to release all pressure, then dispose of container and unused contents in accordance with Local, Provincial/State and Federal regulations.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name : Aerosols, Flammable

Primary Hazard Class/Division: 2.1

UN/NA Number : 1950

Packing Group : N/AP

Other Shipping Information:

With an inner packaging < 1.0 L, this product may be shipped as a Limited Quantity as per DOT 173.306.

Air (ICAO/IATA)

Shipping Name : Aerosols, Flammable

UN/NA Number : 1950

Primary Hazard Class/Division: 2.1

Packing Group : N/AP

Subsidiary Risk : None

Label : Flammable Gas

Vessel (IMO/IMDG)

Shipping Name : Aerosols

UN/NA Number : 1950

Primary Hazard Class/Division: 2.1

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Packing Group : N/AP

Marine Pollutant : None

Label : None

Note: With an inner packaging < 1.0 L, this product may be shipped as a Limited Quantity.

Canadian Transportation of Dangerous Goods Regulations

Shipping Name : Aerosols, Flammable

UN/NA Number : 1950

Primary Hazard Class/Division: 2.1

Packing Group : N/AP

TDG Note:

With an inner packaging < 1.0 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

Fire Hazard : Yes

Sudden Release of Pressure : Yes

Reactive Hazard : No

Product Acute Toxicity : Yes

Product Chronic Toxicity : Yes

EPCRA Section 313 Toxic Chemicals

Chemical Name	Wt.%	CAS number
Toluene	16 - 18	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	43 - 45	5,000
Toluene	16 - 18	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	16 - 18	108-88-3

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

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Name	CAS No.	Threshold Qty (TQ)
Propane	74-98-6	10,000
Butane	75-28-5	10,000

California Proposition 65

Chemical Name	Wt. %	Listed
Toluene	16 - 18	<ul style="list-style-type: none"> • Developmental Toxicity • Female Reproductive
Titanium dioxide	1 - 3	Cancer

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)
Propane	74-98-6	5 (VOC)
Butane (all isomers)	75-28-5	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

Prepared By : Regulatory Compliance **Date Revised:** 12/12/2016

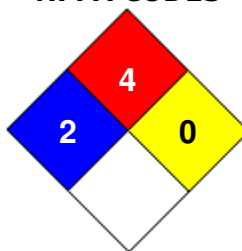
Information Contact: 712-737-4993

Revision Summary: This MSDS replaces the 05/17/2016 MSDS.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		E

NFPA CODES



NFPA 30 / 30B Storage Classification: Level 2 Aerosol

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

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