



Safety Data Sheet FLR Ceram-a-Sheild

SECTION 1: Identification

1.1 Product identifier

Product name	FLR Ceram-a-Sheild
Product number	7793

1.3 Recommended use of the chemical and restrictions on use

Ceramic Paint Coating

1.4 Supplier's details

Name	GAP Professional Products
Address	122 Route 105 Keswick Ridge NB E6L 1B1 Canada
Telephone	(506) 363-9708
Fax	(506) 363-4241
email	info@gapauto.com

1.5 Emergency phone number(s)

For Medical or Transport Emergencies / Pour les urgences médicales ou de transport
CANUTEK (24 Hours)
(613) 996-6666

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: WHMIS 2015

- Toxic to reproduction, Cat. 2
- Hazardous to the aquatic environment, long-term (chronic), Cat. 4
- Aspiration hazard, Cat. 1
- Flammable liquids, Cat. 4
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3

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- Skin corrosion/irritation, Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram



1. Flame; 2. Exclamation mark; 3. Health hazard; 4. Environment

Signal word

Warning

Hazard statement(s)

H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child [effect, route]
H361f	
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Precautionary statement(s)

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to ...
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378	In case of fire: Use ... to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P264	Wash ... thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P403	Store in a well-ventilated place.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
OCTAMETHYLCYCLOTETRAILOXANE (CAS no.: 556-67-2; EC no.: 209-136-7; Index no.: 014-018-00-1) CLASSIFICATIONS: Toxic to reproduction, Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 4; Flammable liquids, Cat. 3. HAZARDS: H361f - ; H413 - May cause long lasting harmful effects to aquatic life.	55 - < 70 % (weight)
decamethylcyclopentasiloxane (CAS no.: 541-02-6) CLASSIFICATIONS: Hazardous to the aquatic environment, long-term (chronic), Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1. HAZARDS: No data available.	12 - < 20 % (weight)
Distillates, petroleum, hydrotreated light (CAS no.: 64742-47-8; EC no.: 265-149-8) CLASSIFICATIONS: Aspiration hazard, Cat. 1; Flammable liquids, Cat. 4; Hazardous to the aquatic environment, long-term (chronic), Cat. 2; Specific target organ toxicity following single exposure, Cat. 3; Skin corrosion/irritation, Cat. 2. HAZARDS: H227 - Combustible liquid; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness; H411 - Toxic to aquatic life with long lasting effects.	12 - < 20 % (weight)
poly siloxane (CAS no.: 475645-84-2) CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Flammable liquids, Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 3; Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat. 1B. HAZARDS: No data available.	1 - 3 % (weight)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Rinse mouth with water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Symptoms and effects are not known to date

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Regular foam, waterfog, carbon dioxide or dry chemical. Keep containers cool with water spray using fog nozzles.

5.2 Specific hazards arising from the chemical

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights and other flames in locations distant from the material handling point.

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5.3 Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. See Section 8 for recommended personal protective equipment. Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. See Section 8 for recommended personal protective equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Dilute spill with plenty of water.

6.3 Methods and materials for containment and cleaning up

LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent. SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Put on appropriate personal equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see Section 10) and food and drink. Do not store under freezing conditions or above 49 C (120 F). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of reach from children.

Specific end use(s)

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. OCTAMETHYLCYCLOTETRAILOXANE (CAS: 556-67-2 EC: 209-136-7)

DNEL, Worker - acute effects local (Inhalation): 73 mg/m³

DNEL, Worker - chronic effects local (Inhalation): 73 mg/m³

DNEL, Worker - acute effects systemic (Inhalation): 73 mg/m³

DNEL, Worker - chronic effects systemic (Inhalation): 73 mg/m³

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2. decamethylcyclopentasiloxane (CAS: 541-02-6)

DNEL, Worker - chronic effects systemic (Inhalation): 97.3 mg/m³

DNEL, Worker - acute effects systemic (Inhalation): 97.3 mg/m³

DNEL, Worker - chronic effects local (Inhalation): 24.2 mg/m³

DNEL, Worker - acute effects local (Inhalation): 24.2 mg/m³

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Recommended: Chemical splash goggles

Skin protection

Wear Nitrile gloves, chemical resistant gloves.

Body protection

Skin Protection: Protective gloves (for hands). Long sleeve shirts and pants should be worn to protect exposed skin.

Respiratory protection

Recommended: Dust mask or Respirator should be worn if product is used in confined space or used for a prolonged period of time.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear liquid
Odor	Solvent odour
Odor threshold	
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	>240° F
Flash point	54 °C at 101.3 kPa 129 °F at 101.3 kPa
Evaporation rate	Not determined
Flammability (solid, gas)	product mist may be flammable
Upper/lower flammability limits	Lower explosion limit (LEL) 0.6 vol% Upper explosion limit (UEL) 4.9 vol%
Vapor pressure	132 Pa at 25 °C
Vapor density	Not Determined
Relative density	Not Determined
Solubility(ies)	Not Determined
Partition coefficient: n-octanol/water	Not Determined
Auto-ignition temperature	215 °C Auto-ignition temperature (liquids and gases) 645.2 K Relative self-ignition temperature for solids
Decomposition temperature	Not Determined
Viscosity	Thin Liquid
Explosive properties	
Oxidizing properties	

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SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Avoid contact with acids and strong oxidizers such as permanganate, chlorine, ectoderm. Do not store near acids, carbon dioxide (CO₂), and strong oxidizers such as permanganate, chlorine, ectoderm.

Distillates, petroleum, hydrotreated light: Strong oxidizing agents, Strong bases, Strong acids, Amines

10.6 Hazardous decomposition products

After water evaporates, burning may produce oxides of carbon, traces of sulfur and nitrogen oxides and various hydrocarbons

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Distillates, petroleum, hydrotreated light

LC0 Inhalation - Rat - 4951 mg/m³ - 4 h

Result: Based on results obtained from tests on analogous products

Distillates, petroleum, hydrotreated light

LD50 Skin - Rabbit - > 5,000 mg/kg

Distillates, petroleum, hydrotreated light

LD50 Oral - Rat - > 5000 mg/kg

Distillates, petroleum, hydrotreated light

Result: May be fatal if swallowed and enters airways.

Distillates, petroleum, hydrotreated light

Result: Carcinogenicity study in rates (OECD 451): Negative

Skin corrosion/irritation

Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

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Serious eye damage/irritation

Can cause severe irritation, redness, tearing, blurred vision.

Respiratory or skin sensitization

Breathing of dust or mist can cause mild to severe irritation of nasal or respiratory passage.

Germ cell mutagenicity

No data available

Carcinogenicity

Carcinogenicity: Ingredients not listed by OSHA, NTP, IARC.

Reproductive toxicity

No data available

Summary of evaluation of the CMR properties

Not Available

STOT-single exposure

Primary route of entry: A) Skin B) Inhalation

STOT-repeated exposure

Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to product.

Additional information

OCTAMETHYLCYCLOTETRASIOXANE: ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be

irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Oral

Rat

> 2,000 mg/kg

LD50

Skin

Rat

> 2,400 mg/kg

LD50

Skin

Rabbit

> 4,640 mg/kg

LD50

Oral

Rat

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1540 mg/kg

LD50

Remarks: Behavioral:Tremor.

Inhalation

Rat

36,000 mg/m³

LC50

Remarks: Behavioral:Excitement. Lungs, Thorax, or
Respiration:Dyspnea. Skin and Appendages: Other: Hair.

Skin

Rat

1770 mg/kg

LD50

Remarks: Behavioral:Tremor. Gastrointestinal:Changes in
structure or function of salivary glands. Liver:Other changes.

Skin

Rabbit

794 UL/KG

LD50

Remarks: Kidney, Ureter, Bladder:Hematuria.

IRRITATION DATA

Skin

Rabbit

500 mg

24H

Remarks: Mild irritation effect

Eyes

Rabbit

500 mg

24H

Remarks: Mild irritation effect

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Result: Overexposure may cause reproductive disorder(s) based on
tests with laboratory animals.

Species: Rat

Dose: 500 PPM

Route of Application: Inhalation

Exposure Time: (70D MALE/70D PRE-3W POST)

Result: Effects on Newborn: Live birth index (# fetuses per
litter; measured after birth).

SECTION 12: Ecological information

Toxicity

Distillates, petroleum, hydrotreated light

Result: Bioconcentration factor (BCF): no data available. Partition co-efficient (Log Pow): 3-6

Distillates, petroleum, hydrotreated light

Result: Readily biodegradable. Does not hydrolyze

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Distillates, petroleum, hydrotreated light
EC50 - Tetrahymena pyriformis - >1000 mg/l - 48 h

Distillates, petroleum, hydrotreated light
NOEC - Oncorhynchus mykiss (rainbow trout) - >1000 mg/l - 28 d

Distillates, petroleum, hydrotreated light
IC0 - Pseudokirchneriella subcapitata (green algae) - >1000 mg/l - 72 h

Distillates, petroleum, hydrotreated light
EC0 - Daphnia magna (water flea) - >1000 mg/l - 48 h

Distillates, petroleum, hydrotreated light
LC0 - Oncorhynchus mykiss (rainbow trout) - >1000 mg/l - 96 h

Distillates, petroleum, hydrotreated light
NOEC - Daphnia magna (water flea) - >1000 mg/l - 21 d

SECTION 13: Disposal considerations

Disposal of the product

Dispose of accordance in local, and provincial regulations for biodegradable detergents.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

Canadian Non-Domestic Substances List (NDSL)

SECTION 16: Other information

16.1 Further information/disclaimer

These SDS are written in an effort to provide information to the worker in the workplace and in such a way it can be understood. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may

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present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

16.2 Preparation information

Prepared by: C. Gourley