

Samaritan Shield™ Protective Cleaner

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/20/2020 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Liquid Mixture
Product name : Samaritan Shield™ Protective Clearcoat Cleaner with Zn
Product Description : Antimicrobial Cleaner and Deodorizer

1.2. Recommended use and restrictions on use

Recommended use : Clean all hardsurfaces and protection from bacteria, viruses and pathogens

1.3. Supplier

DMR International Inc.
720 S. Eastwood Drive, Suite 243
Woodstock, IL 60098
Tel: (815) 704-5678
www.dmri-inc.com

1.4. Emergency telephone number

Emergency number : 1-800-255-3924 INTERNATIONAL: 001-813-248-0585
Chem-Tel (available 24 hours/day)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin irritation, Category 2
Skin sensitisation, Category 1
Serious eye damage, Category 1
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : Harmful to aquatic life with long lasting effects.
Precautionary statements (GHS-US) : Avoid Release to environment

2.3. Other hazards which do not result in classification

None

2.4. Unknown acute toxicity (GHS US)

<10% by weight of Part B is comprised of ingredients with unknown acute toxicity

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5	>50	N/A
Polydimethylsiloxane	(CAS-No.) Mixture	<20	H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects P237 Avoid release into the environment
Isopropyl Alcohol (2 propanol)	(CAS-No.) 67-63-0	<5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H335
Remaining ingredients are trade secret	n/a	<1	

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Seek medical advice if not feeling well or normal. Keep Calm
- First-aid measures after inhalation : Move person to fresh air; if effects occur, consult a physician
- First-aid measures after skin contact : Rinse with water. Do not apply (chemical) neutralizing agents without medical advice. Soap may be used. Take victim to a doctor if irritation persists.
- First-aid measures after eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
- First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician. Immediately drink a lot of water. Do not induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

4.2. Most important symptoms and effects (acute and delayed)

Non-toxic if swallowed, not an irritant to skin, can dry out skin.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water, dry chemical, alcohol resistant foam.

5.2. Specific hazards arising from the chemical

- Combustion Product : In case of fire, carbon oxides, silicon oxides might be formed
- Fire-fighting hazard gas : In case of fire, product may react with some metals (Aluminum, Zinc, Tin) to release Hydrogen gas

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Combustible liquid. Extinguish all sources of ignition. Keep away from heat, sparks, and flames. Use extinguishing media appropriate for surrounding fire. Use water spray to cool nearby containers and structures exposed to fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including full face respiratory protection.

SECTION 6 : Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear appropriate personal protective equipment as conditions warrant. (Review Section 8) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Follow all precautions for handling spill. (Review Section 7) Isolate spill or leak area and deny entry of untrained personnel

6.1.1. For non-emergency personnel

- Protective equipment : No action shall be taken involving any personal risk or without suitable training. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Do not touch or walk through spilled material. Isolate spill or leak. Eliminate all ignition sources. No smoking, flares, sparks, or flames in spill area. Ventilate spill area if fumes are present, keep unauthorized personnel away. Stay up-wind of any fumes. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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6.1.2. For emergency responders

- Protective equipment : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Emergency procedures : Stop leak if safe to do so. Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous. Ventilate area.

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

No additional information available.

SECTION 7 : Handling and storage

7.1. Precautions for safe handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Storage area : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. 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. Use appropriate containment to avoid environmental contamination

SECTION 8 : Exposure controls/personal protection

8.1. Control parameters

Polydimethylsiloxane (Mixture)
None Established
Isopropyl Alcohol 2-Propanol (67-63-0)
OSHA (400ppm)

8.2. Appropriate engineering controls

- Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls : Ensure good general ventilation. Use local exhaust ventilation to draw spray, mists and vapors away from work area to prevent inhalation of product fumes. Provide general or local exhaust ventilation systems using corrosive resistant materials to maintain airborne contaminants below any recommended or standard occupational exposure limits. Local exhaust ventilation is preferred because it prevents contamination dispersion into the work area by controlling it at its source. Ventilation guidelines may be found in OSHA Regulations (29CFR 1910.94) or in publications such as: American Conference of Governmental Industrial Hygienist.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations are close to the workstation location. Respiratory protection is not required. Where protection from nuisance levels of dusts, contaminants or high virus protection are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (SU) or CEN (EU).

Hand protection:

Chemical-resistant (EN 374) impervious gloves complying with an approved standard should always be worn when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates more protection: chemical splash goggles.

Skin and body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Milky White Liquid
Odor	: Slight- Isopropanol Odor
Odor threshold	: Slight alcohol
pH	: 6-7
Melting point	: No data available
Freezing point	: Estimated at 10-29°F
Boiling point	: Estimated at 212°F
Flash point	: Estimated at 141°F
Relative evaporation rate	: Less than 1
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.16
Solubility	: 100%
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 72°F SP#3 at 20 rpm 600-1000cps
Viscosity, dynamic	: No data available

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Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal temperature, pressure and use

10.2. Chemical stability

Stable at normal temperature, pressure and stored away from direct sunlight.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur

10.4. Conditions to avoid

Extremes of temperature, heat sources and direct sunlight

10.5. Incompatible materials

Reactive or incompatible with the following materials : Strong oxidizing agents, bleaching agents, acids and amines

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. If product is heated above 300°F product can form formaldehyde vapor

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : No Data Available

Polydimethylsiloxane (Mixture)	
LD50 acute oral rat	No Data Available
LD50 acute dermal rabbit	No Data Available

Isopropyl Alcohol 2-Propanol (67-63-0)	
LD50 acute oral rat	Rat 16,000 mg/kg 8 hours
LD50 acute dermal rabbit	Rabbit 12,800 mg/kg

Skin corrosion/irritation	: Moderate skin irritation, drying or flaking.
Serious eye damage/irritation	: Slight eye irritation
Respiratory sensitisation	: No Data available
Skin sensitisation	: May cause an mild drying of skin.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12 : Ecological information

12.1. Toxicity

Polydimethylsiloxane (Mixture)	
No data on the product itself	Not available
Isopropyl Alcohol 2-Propanol (67-63-0)	
LD50	LD50 /96 Hours Pimephales Promelas: 9640 mg/L

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12.2. Persistence and degradability

Polydimethylsiloxane (Mixture)	
No data on the product itself	No data on the product itself

Isopropyl Alcohol 2-Propanol (67-63-0)	
EC50	72 Hours Desmodesmus subspicatus > 2,000 mg/L

12.3. Bioaccumulative potential

Polydimethylsiloxane (Mixture)	
No data on the product itself	No data on the product itself

Isopropyl Alcohol 2-Propanol (67-63-0)	
No data on the product itself	No data on the product itself

12.4. Mobility in soil

Polydimethylsiloxane (Mixture)	
No data on the product itself	No data on the product itself

S3 Isopropyl Alcohol	
No data on the product itself	No data on the product itself

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.
GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations. Do not dump into sewers, on the ground or into any body of water. Contact a licensed professional waste disposal service to ensure proper disposal.
Product/Packaging disposal recommendations : Avoid release to the environment. Disposal must be done according to official regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Isopropyl Alcohol is a low percent per volume and creates a minimal fire hazard. Contains less than 4% by volume and

Transportation of Dangerous Goods

Transport document description (IMDG) : Not regulated,
UN-No. (IMDG) : 1219
Proper Shipping Name (IMDG) : Combustible Liquid, N.O.S.
Class (IMDG) : III - Substances presenting low danger
Packing group (IMDG) : III
Limited quantities (IMDG) :
Marine pollutant : No

Air transport

Transport document description (IATA) : Not regulated
UN-No. (IATA) : 1219
Proper Shipping Name (IATA) : 9 - Miscellaneous Dangerous Goods
Class (IATA) : III - Substances presenting low danger

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Packing group (IATA) : III - Substances presenting low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

S3 S3 Samaritan Shield liquids	
EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
SARA Section 312 Hazard Classes (40 CFR 370)	No SARA hazards

15.2. International regulations

CANADA

Components of this product are listed or exempt

EU-Regulations

No additional information available

Components of this product are listed or exempt

National regulations

S3 S3 Samaritan Shield liquids	
Components of this product are listed or exempt from listing on the Canadian Domestic Substance List.	

15.3. US State regulations

S3 S3 Samaritan Shield liquids	
State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Pennsylvania, Massachusetts & New Jersey Hazardous Substance List Right to Know: The following components in this product are listed as hazardous at levels which may require reporting. 2-Propanol (67-63-0)

SECTION 16: Other information

Full text of H-statements:

H303	Maybe harmful if swallowed
H333	Maybe harmful if inhaled
H317	May cause an allergic skin reaction
H320	Causes eye irritation

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard : 2 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Stable

HMIS RATING	
HEALTH:	1
FLAMMABILITY:	2
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	X

Health Hazard rating : X Moderate Hazard - Temporary or minor injury may occur
Flammability : 2 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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