Diamond Productions Canada
Quality diamond tools since 1954

SAFETY DATA SHEET

Print Date: January 31, 2020

Section 1: Product & Company Information

Product Identifier: **DuraCoat** (Chemical Resistance Floor Coating)

Other Means of Identification
Product Number: No data available.

Recommended Use and Restrictions on Use
Recommended Use: Chemical resistance coating for polished concrete and terrazzo floors.
Restrictions on Use: No data available.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: Diamond Productions Canada Ltd.
Address: 4810 Jean Talon West, Suite # 418
Montreal, Quebec H4P 2N5
CANADA

Information Telephone Number: (800) 342 2523 or (514) 735-9131
Fax Number: (800) 342-2524 or (514) 731-5611
Website: www.dpcanada.com
Contact Person: Regulatory Manager
E-mail: info@dpcanada.com

Emergency Phone Number: CANUTEC (613) 996-6666 *(monitored 24 hours/day)*

Section 2: Hazards Identification

GHS Hazard Classification(s)
In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Physical Hazard(s)
Not classified.

Health Hazard(s)
Corrosion/Irritation, Skin – 3

Environmental Hazard(s)
Not classified.

Label Elements

Signal Word
WARNING

Hazard Symbol(s)
Not applicable.

Hazard Statement(s)
H316-Causes mild skin irritation

Precautionary Statements

General
Not applicable.

Prevention
Not applicable.

Response
P332 + P313 - If skin irritation occurs: Get medical advice/attention.

Storage
Not applicable.

Disposal
Not applicable.

Hazard(s) not otherwise classified (HNOC)
None known.

Section 3: Composition/Information on Ingredients

Mixture

Chemical Identity [2]	Common Name/Synonym(s)	CAS # [3]	Weight %	Impurity or Stabilizing Additive
Acrylic Copolymer	-	Proprietary	10-30%	No
Tributyoxyethyl Phosphate	-	78-51-3	1-5%	No
2-(2-ethoxyethoxy)ethanol	-	111-90-0	1-5%	No
[2-(2-Methoxymethylethoxy)methylethoxy]-propanol	-	25498-49-1	1-5%	No
Zinc Oxide	-	1314-13-2	1-5%	No

1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
3. "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact

Wash off immediately with plenty of water. Wash skin with soap and water.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Clean mouth with water and drink afterwards plenty of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Symptoms

No data available.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Treat symptomatically.

Section 5: Fire-Fighting Measures

General Fire Hazards

No data available.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Caution: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

Do not allow run-off from firefighting to enter drains or water courses.

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

No data available.

Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Evacuate spill area. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low area. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment. Ventilate contaminated area thoroughly shut off leaks if possible without personal risk.

Methods and Materials for Containment and Clean-Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 7: Handling and Storage

Precautions for Safe Handling

Use caution when handling/transferring. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible. Observe good industrial hygiene practices.

Conditions for Safe Storage, including any Incompatibilities

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials (See Section 10). Ensure that all local regulations regarding handling and storage facilities are followed.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
Zinc oxide	STEL	10 mg/m^3 (respirable fraction)	ACGIH TLV
Zinc oxide	TWA	2 mg/m^3 (respirable fraction)	ACGIH TLV
Zinc Oxide	TWA	5 mg/m^3 (fume)	OSHA PEL
Zinc Oxide	TWA	15 mg/m^3 (total dust)	OSHA PEL
Zinc Oxide	TWA	5 mg/m^3 (respirable fraction)	OSHA PEL
2-(2-ethoxyethoxy)ethanol	STEL	150 ppm	ACGIH TLV
2-(2-ethoxyethoxy)ethanol	TWA	100 ppm Ceiling	ACGIH TLV
2-(2-ethoxyethoxy)ethanol	TWA	100 ppm	OSHA PEL
2-(2-ethoxyethoxy)ethanol	TWA	600 mg/m^3	OSHA PEL
Sodium Hydroxide	Ceiling	2 mg/m^3	ACGIH TLV
Sodium Hydroxide	TWA	2 mg/m^3	OSHA PEL
Ethanol	STEL	1000 ppm	ACGIH TLV
Ethanol	TWA	1000 ppm	OSHA PEL
Ethanol	TWA	1900 mg/m^3	OSHA PEL
Ammonia	STEL	35 ppm	ACGIH TLV
Ammonia	TWA	25 ppm	ACGIH TLV
Ammonia	TWA	50 ppm	OSHA PEL
Ammonia	TWA	35 mg/m^3	OSHA PEL

Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

Appropriate Engineering Controls

No data available.

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

General Information

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Eye/Face Protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection

Chemical resistant gloves recommended.

Other

Chemical resistant apron recommended when transferring.

Respiratory Protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information

Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State:	Liquid
Color:	Off-white
Odor:	Mild Typical Acrylic
Odor Threshold:	No data available.
pH:	8-9
Melting Point/Freezing Point:	No data available.
Initial Boiling Point and Boiling Range:	100□C
Flash Point:	No data available.
Evaporation Rate (butyl acetate=1)**:**	No data available.
Flammability (solid, gas):	No data available.
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper:	No data available.
Flammability Limit – Lower:	No data available.
Explosive Limit – Upper:	No data available.
Explosive Limit – Lower:	No data available.
Vapor Pressure:	No data available.
Vapor Density (air =1)**:**	No data available.
Relative Density (water=1)**:**	1.02
Solubility(ies):	
Solubility in water:	Complete
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.

Other Information:

Molecular Weight:	No data available.
Formula:	No data available.

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

No data available.

Hazardous Decomposition Products
None known based on information supplied.

Section 11: Toxicological Information

Information on routes of exposure
Ingestion: Do not taste or swallow.
Inhalation: May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Skin Contact: Avoid contact with skin. Prolonged or repeated contact may dry skin and cause irritation.
Eye Contact: Avoid contact with eyes. May cause slight irritation.

Information on Toxicological Effects
Acute Toxicity (List all possible routes of exposure)
Oral
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0): 1920 mg/kg (Rat)
Zinc Oxide (CAS# 1314-13-4): >5000 mg/kg (Rat)

Dermal
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0): 4200 µL/kg (Rabbit)
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0): 6 ml/kg (Rat)

Inhalation
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0): > 5240 mg/m3 (Rat) 4 h

Repeated Dose Toxicity
Not Determined.

Skin Corrosion/Irritation
May Cause Skin Irritation.

Serious Eye Damage/Eye Irritation
Causes Eye Irritation.

Respiratory/Skin Sensitization
May Cause Respiratory Irritation if sprayed.

Carcinogenicity
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
Group 1, Carcinogenic to humans.
US. National Toxicology Program (NTP) Report on Carcinogens
Known to be human carcinogen.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Component(s) of this product at levels greater than 0.1%, have been identified as a carcinogen or potential carcinogen by OSHA.

Germ Cell Mutagenicity
In Vitro
No mutagenic components identified.
In Vivo
No mutagenic components identified.

Reproductive Toxicity
None known.

Specific Target Organ Toxicity – Single Exposure
None known.

Specific Target Organ Toxicity – Repeated Exposure
Respiratory system, EYES, Central nervous system.

Aspiration Hazard
Not classified.

Other Effects
Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Section 12: Ecological Information

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

Tributoxyethyl Phosphate (CAS# 78-51-3)
10.4 - 12.0: 96 h Pimephales promelas mg/L LC50 flow-through
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0)
10000: 96 h Lepomis macrochirus mg/L LC50 static
19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through
11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through
11600 - 16700: 96 h Pimephales promelas mg/L LC50 flow-through
13400: 96 h Salmo gairdneri mg/L LC50 flow-through
[2-(2-Methoxymethylethoxy)methylethoxy]-propanol (CAS# 25498-49-1)
11619: 96 h Pimephales promelas mg/L LC50 static
2-(2-methoxypropoxy)propano (CAS# 34590-94-8)
10000: 96 h Pimephales promelas mg/L LC50 static
Sodium Hydroxide (CAS# 1310-73-2)
45.4: 96 h Oncorhynchus mykiss mg/L LC50 static
Ethanol (CAS# 64-17-5)
12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static
100: 96 h Pimephales promelas mg/L LC50 static
13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through
Ammonia (CAS# 7664-41-7)
0.44: 96 h Cyprinus carpio mg/L LC50
0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50
1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through
0.73 - 2.35: 96 h Pimephales promelas mg/L LC50
5.9: 96 h Pimephales promelas mg/L LC50 static
1.5: 96 h Poecilia reticulata mg/L LC50
1.19: 96 h Poecilia reticulata mg/L LC50 static
Methyl Chloro Isothiazolinone (CAS# 26172-55-4)
1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static
Magnesium Chloride (CAS# 7786-30-3)
1970 - 3880: 96 h Pimephales promelas mg/L LC50 static
4210: 96 h Gambusia affinis mg/L LC50 static

Aquatic Invertebrates

2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0)
3940 - 4670: 48 h Daphnia magna mg/L EC50
[2-(2-Methoxymethylethoxy)methylethoxy]-propanol (CAS# 25498-49-1)
10: 48 h Daphnia magna mg/L EC50
2-(2-methoxypropoxy)propano (CAS# 34590-94-8)
1919: 48 h Daphnia magna mg/L LC50
Ethanol (CAS# 64-17-5)
9268 - 14221: 48 h Daphnia magna mg/L LC50
2: 48 h Daphnia magna mg/L EC50 Static
10800: 24 h Daphnia magna mg/L EC50
Ammonia (CAS# 7664-41-7)
25.4: 48 h Daphnia magna mg/L LC50

Methyl Chloro Isothiazolinone (CAS# 26172-55-4)
4.71: 48 h Daphnia magna mg/L EC50
0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through
0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static
Magnesium Chloride (CAS# 7786-30-3)
140: 48 h Daphnia magna mg/L EC50 Static
1400: 24 h Daphnia magna mg/L EC50

Toxicity to Aquatic Plants

Methyl Chloro Isothiazolinone (CAS# 26172-55-4)
0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static
0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static
0.31: 120 h Anabaena flos-aquae mg/L EC50
Magnesium Chloride (CAS# 7786-30-3)
2200: 72 h Desmodesmus subspicatus mg/L EC50

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants
No data available.

Persistence and Degradability
Biodegradation
Expected to be readily biodegradable.
BOD/COD Ratio
No data available.

Bioaccumulative Potential
Bioconcentration Factor (BCF)
No data available on bioaccumulation.
Partition Coefficient n-octanol / water (log Kow)
Tributoxyethyl Phosphate (CAS# 78-51-3) 4.78
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0) -0.8

Mobility in Soil
The product is water soluble and may spread in water systems.

Other Adverse Effects
No data available.

Section 13: Disposal Considerations

Disposal Instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated Packaging
Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

Section 14: Transportation Information

US Department of Transportation (DOT)
This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

Section 15: Regulatory Information

US Federal Regulations
Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)
This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)
No chemical(s) in this material are subject to the reporting requirements of CERCLA.

Clean Air Act (CAA), Section 112(r)
No chemical(s) in this material are subject to the reporting requirements of CAA.

Emergency Planning and Community Right-To-Know Act (EPCRA)
EPCRA 302 Extremely Hazardous Substance
No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification
No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive:	No
Acute (Immediate) Health Hazard:	No
Chronic (Delayed) Health Hazard:	No

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting
The following chemical(s) in this material are subject to reporting levels established by SARA Title III, Section 313:
2-(2-ethoxyethoxy)ethanol (CAS# 111-90-0)
[2-(2-Methoxymethylethoxy)methylethoxy]-propanol (CAS# 25498-49-1)
Zinc oxide(CAS# 1314-13-2)

US State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

Section 16: Other Information

Hazardous Materials Identification System (HMIS) Classification

Health Hazard: 1
Chronic Health Hazard: /
Flammability: 0
Physical Hazard: 0
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0
Special: N/A
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

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Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
EC50 - Effective concentration, 50%
IDHL – Immediately Dangerous to Life and Health
Kg – Kilogram
l – Liter
lb – Pound
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
mg - milligram
ml – milliliter
N/A – Not Applicable
N/D – Not Determined
PEL – Permissible Exposure Limit
REL – Recommended Exposure Limit
STEL – Short-term Exposure Limit
TWA - Time weighted average
ACGIH - American Conference of Industrial Hygienists
AIHA – American Industrial Hygiene Association
BEI - Biological Exposure Indices
CAS – Chemical Abstracts Service
DOT – US Department of Transportation
EPA – US Environmental Protection Agency
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OSHA – US Occupational Health and Safety Administration
SARA – US EPA Superfund Amendments and Reauthorization Act
TSCA – US EPA Toxic Substances Control Act
UN - United Nations

References

HSDB - Hazardous Substances Data Bank

Disclaimer

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