

Crystalline Quartz Silica **NTP** - Hazard Designation: Known To Be Human Carcinogen.
IARC - Overall evaluation: 1 Carcinogenic to humans.

12. ECOLOGICAL INFORMATION

No data available for this product.

Ecological Data for Aluminum hydroxide

Additional Ecotoxicological Remarks

No data available for this component.

Ecological Data for Titanium dioxide (Rutile)

Acute and Prolonged Toxicity to Fish

LC0: > 1,000 mg/l (Golden orfe (*Leuciscus idus*), 48 h)

Acute Toxicity to Aquatic Invertebrates

EC0: > 3 mg/l (Water flea (*Daphnia magna*))

Toxicity to Microorganisms

EC0: > 10,000 mg/l, (*Pseudomonas fluorescens*, 24 h)

Ecological Data for Propylene glycol

Biodegradation

Aerobic, 100 %, Exposure time: 1 Days

Anaerobic, 100 %, Exposure time: 9 Days

Biochemical Oxygen Demand (BOD)

5 Days, 1,170 mg/l

Chemical Oxygen Demand (COD)

2,600 mg/g

Theoretical Biological Oxygen Demand (ThBOD)

0.45 mg/g

Bioaccumulation

< 1 BCF

Calculated value

Acute and Prolonged Toxicity to Fish

LC50: 51,400 mg/l (Fathead minnow (*Pimephales promelas*), 96 h)

LC50: 23,800 mg/l (Sheepshead minnow (*Cyprinodon variegatus*), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: > 10,000 mg/l (Water flea (*Daphnia magna*), 48 h)

Toxicity to Aquatic Plants

EC50: 19,000 mg/l, End Point: growth (Green algae (*Selenastrum capricornutum*), 96 h)

Toxicity to Microorganisms

EC50: 25,800 mg/l, (*Photobacterium phosphoreum*, 30 min)

> 1,000 mg/l, (Activated sludge microorganisms, 3 h)

**Ecological Data for 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-
Acute and Prolonged Toxicity to Fish**

LC50: 0.049 mg/l (Other fish)

LC50: 0.076 mg/l (Rainbow (Donaldson) Trout (Oncorhynchus mykiss), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 0.2 mg/l (Water flea (Daphnia magna))

Ecological Data for Benzophenone**Biodegradation**

aerobic, 0 %, 0 %, Exposure time: 28 d, i.e. not readily degradable

Bioaccumulation**Acute and Prolonged Toxicity to Fish**

LC50: 15.3 mg/l (Fathead minnow (Pimephales promelas), 96 h)

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13. DISPOSAL CONSIDERATIONS**Waste Disposal Method****Container Precautions**

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

14. TRANSPORT INFORMATION**Land transport (DOT)**

Non-Regulated

Sea transport (IMDG)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Chlorothalonil)
Hazard Class or Division:	9
UN number:	UN3082
Packaging Group:	III
Hazard Label(s):	MISCELLANEOUS

Air transport (ICAO/IATA)

Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (contains Chlorothalonil)
Hazard Class or Division:	9
UN number:	UN3082
Packaging Group:	III
Hazard Label(s):	MISCELLANEOUS

15. REGULATORY INFORMATION**United States Federal Regulations****US. Toxic Substances Control Act:** Listed on the TSCA Inventory.**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:**

Zinc Oxide Included in the regulation but with no data values. See regulation for further details

SARA Section 311/312 Hazard Categories:Acute Health Hazard
Chronic Health Hazard**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**

None

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US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:Zinc Oxide
1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Water	7732-18-5
>=1%	Acrylic Polymer	
10 - 20%	Limestone	1317-65-3
10 - 20%	Aluminum hydroxide	21645-51-2
3 - 7%	Titanium dioxide (Rutile)	13463-67-7
1 - 5%	Zinc Oxide	1314-13-2
1 - 5%	Propylene glycol	57-55-6
0.1 - 1%	1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6
0.1 - 1%	Benzophenone	119-61-9
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 5%	Zinc Oxide	1314-13-2
0.1 - 1%	Aluminum Oxide	1344-28-1
0.1 - 1%	1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6
0.1 - 1%	Crystalline Quartz Silica	14808-60-7
10 - 15 ppm	Cadmium	7440-43-9

California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin. Female reproductive toxin. Male reproductive toxin.

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
3 - 7%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-	1897-45-6
0.1 - 1%	Benzophenone	119-61-9
0.1 - 1%	Crystalline Quartz Silica	14808-60-7
10 - 15 ppb	Ethylene Oxide	75-21-8
10 - 15 ppm	Cadmium	7440-43-9
15 - 20 ppm	Lead	7439-92-1
5 - 10 ppb	Formaldehyde	50-00-0
5 - 10 ppb	Acetaldehyde	75-07-0
10 - 15 ppb	Hexachlorobenzene	118-74-1
20 - 25 ppb	1,4-Dioxane	123-91-1

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. OTHER INFORMATION

The method of hazard communication for Green Shield Products, LLC is comprised of Product Labels and Safety Data Sheets.

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