

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin Contact
Eye Contact
Ingestion
Inhalation

Health Effects and Symptoms

Acute: Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning., May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.

Chronic: May cause cancer.

Toxicity Data for AF FINISH

No data available for this product.

Toxicity Data for Aluminum hydroxide

Acute Oral Toxicity

LD50: > 2000 mg/kg (rat, female) (OECD Test Guideline 423)

Skin Irritation

rabbit, OECD Test Guideline 404, Non-irritating

Eye Irritation

rabbit, OECD Test Guideline 405, Slightly irritating

Sensitization

Respiratory sensitization: negative (mouse)
Studies of a comparable product.

Skin sensitization according to Magnusson/Kligmann (maximizing test): negative (guinea pig, OECD Test Guideline 406)

Repeated Dose Toxicity

28 Days, Oral: NOAEL: 14,470 ppm, (rat, male)

Mutagenicity

Genetic Toxicity in Vitro:

Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (rat, male/female, Oral) negative

Developmental Toxicity/Teratogenicity

rat, female, oral, NOAEL (teratogenicity): 1,000 mg/kg, No Teratogenic effects observed at doses tested. No fetotoxicity observed at doses tested. rat, female, oral, GD 6-15, daily, NOAEL (teratogenicity): 266 mg/kg, No Teratogenic effects observed at doses tested. No fetotoxicity observed at doses tested.

Toxicity Data for Titanium dioxide (Rutile)

Acute Oral Toxicity

LD50: > 5000 mg/kg (rat, female) (OECD Test Guideline 425)

Acute Inhalation Toxicity

LC50: > 6.82 mg/l, 4 h (rat, male)

Acute Dermal Toxicity

LD50: > 10000 mg/kg (rabbit)

Skin Irritation

rabbit, OECD Test Guideline 404, Exposure Time: 24 h, Non-irritating

Eye Irritation

rabbit, OECD Test Guideline 405, Non-irritating

Sensitization

dermal: non-sensitizer (Guinea pig, Maximization Test)

dermal: non-sensitizer (Human, Patch Test)

Skin sensitization (local lymph node assay (LLNA)):: negative (mouse, OECD Test Guideline 429)

Repeated Dose Toxicity

28 Days, inhalation: NOAEL: 35 mg/m³, (Rat)

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily)

up to 2 years, inhalation: NOAEL: 0.01 mg/l, (Rat, male/female, 6 hrs/day 5 days/week)

Mutagenicity

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Chromosome aberration test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Drosophila SLRL test: negative (Drosophila melanogaster) negative

Cytogenetic assay: negative (mouse, male, intraperitoneal) negative

Carcinogenicity

Rat, Male/Female, inhalation, according to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

Other Relevant Toxicity Information

May cause irritation of respiratory tract.

Toxicity Data for 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-**Acute Oral Toxicity**

LD50: > 10000 mg/kg (rat)

Acute Inhalation Toxicity

LC50: 0.217 mg/l, 4 h (rat) (OECD Test Guideline 403)

Acute Dermal Toxicity

LD50: > 10000 mg/kg (rabbit)

Skin Irritation

rabbit, Draize, Non-irritating

Eye Irritation severe

irritant

Sensitization

Skin sensitization: sensitizer (Human)

Toxicity Data for Ammonium Hydroxide**Acute Oral Toxicity**

LD50: 350 mg/kg (rat)

Acute Inhalation Toxicity

LC50: 2.87 mg/l, 4 h (rat)

Skin Irritation

Corrosive

Eye Irritation

Human, Severely irritating

Sensitization

Skin sensitization: negative

Mutagenicity

Genetic Toxicity in Vitro:

Ames: negative (E. coli, Metabolic Activation: without)

Toxicity Data for Crystalline Quartz Silica**Acute Oral Toxicity**

LD50: 500 mg/kg (rat)

Mutagenicity

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Sister Chromatid Exchange: ambiguous (hamster) ambiguous

Carcinogenicity

rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week, positive

Carcinogenicity:

Titanium dioxide (Rutile) **IARC** - Overall evaluation: 2B Possibly carcinogenic to humans.

1,3-Benzenedicarbonitrile, **IARC** - Overall evaluation: 2B Possibly carcinogenic to humans.

2,4,5,6-tetrachloro-

Crystalline Quartz Silica **NTP** - Hazard Designation: Known to be Human Carcinogen.

IARC - Overall evaluation: 1 Carcinogenic to humans.

SECTION 12. ECOLOGICAL INFORMATION

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 Biocide

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 Ammonium Hydroxide

Additional Ecotoxicological Remarks

No data available for this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Container Precautions

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

SECTION 14. TRANSPORT INFORMATION

Non-Regulated

SECTION 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:

None

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

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:

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	
20 - 30%	Limestone	1317-65-3
10 - 20%	Aluminum hydroxide	21645-51-2
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 - 1%	Zinc Oxide	1314-13-2
0.1 - 1%	Ammonium Hydroxide	1336-21-6
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%	Crystalline Quartz Silica	14808-60-7

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>
5 - 10%	Titanium dioxide (Rutile)	13463-67-7
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

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).

SECTION 16. OTHER INFORMATION

The method of hazard communication for Proguard Building is comprised of Product Labels and Safety Data Sheets.

Contact: Product Safety Department
Telephone: 832.922.2926
Version Date: 06/30/2016
SDS Version: 1.1

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