SAFETY DATA SHEET

DuraGlaze Plus

According to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US)

Review Date: March 14, 2022

1. Identification

Product identifier

Product name	DuraGlaze Plus

Other means of identification

Synonyms	No information available.

Recommended use of the chemical and restrictions on use

Recommended use	No information available.
Recommended restrictions	No information available.

Manufacturer/Importer/Supplier/Distributor information

Supplier	No information available
Emergency telephone	CHEMTREC: USA - 1-800-424-9300 International - (703) 527-3887

2. Hazard(s) identification

OSHA Regulatory Status

This product is considered as hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Physical Hazards	Not classified.	
Health Hazards	Skin Sensitization	Category 1
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 1B
	Specific target organ toxicity- Repeated Exposure	Category 2
OSHA defined hazards	None Known.	

GHS label elements

Signal word Warning

Health Statements

May cause an allergic skin reaction.

Causes serious eye irritation.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray**.** Contaminated work clothing must not be allowed out of the workplace. Wash thoroughly after handling**.** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray.

Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see see first aid instructions on label). Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/ regional/ national/ international regulations.
Hazard(s) not otherwise classified (HNOC)	None Known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	Percentage % (wt/wt)
N-[3(trimethoxysilyl)propyl]ethylenediamine	1760-24-3	1.49
Dibutyltin oxide	818-08-6	0.15
Calcium Carbonate	471-34-1	17-31
Stearic acid	57-11-4	0.07-0.17
Titanium dioxide	113463-67-7	2.75
Quartz (fine fraction)	14808-60-7	0.017
Methanol	67-56-1	0.2 - <0.4

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

4. First-aid measures

Description of first aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Skin contact	Remove contaminated clothing. If on skin, wash off immediately with soap and plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.
Most important symptoms/effects, both acute and delayed	No specific symptoms noted.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media
Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Thermal decomposition may release irritating, corrosive and/or toxic gases, vapors and fumes.

Special protective equipment and precautions for firefighters
Use water spray or fog for cooling exposed containers. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.
See SDS Section 8 (Exposure Controls/Personal Protection).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Evacuate unnecessary personnel. Avoid breathing vapor, mist, or spray. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment (PPE) as detailed in Section 8.

Methods and materials for containment and cleaning up
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. Handling and storage

Precautions for safe handling
Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. No smoking. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Apply good hygienic practices.

Conditions for safe storage, including any incompatibilities
Keep Cool. Store in a dry place. Keep out of reach of children.

8. Exposure controls/personal protection

Occupational exposure limits (OEL)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
None of the components in this product is listed.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Calcium Carbonate (CAS NO# 471-34-1)	PEL (TWA)	15 mg/m^3 (total dust)
		5 mg/m^3 (respirable fraction)
Titanium oxide (CAS NO# 13463-67-7)	PEL (TWA)	15 mg/m^3 (total dust)
Methanol (CAS NO# 67-56-1)	PEL (TWA)	200 ppm (260 mg/m^3)

Quartz (fine fraction) (CAS NO# 14808-60-7)	PEL (TWA)	50 µg/m³(respirable)

US. OSHA Table Z-2 (29 CFR 1910.1000)
None of the components in this product is listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value
Quartz (fine fraction) (CAS NO# 14808-60-7)	PEL	250 mppcf (%SiO_2+5) 10 mg/m³(%SiO_2+2)

US. ACGIH Threshold Limit Values

Components	Type	Value
Titanium oxide (CAS NO# 13463-67-7)	TLV (TWA)	10 mg/m³
Stearic acid (CAS NO# 57-11-4)	TLV (TWA)	10 mg/m³ (inhalable particulate matter) 5 mg/m³ (respirable particulate matter)
Methanol (CAS NO# 67-56-1)	TLV (TWA)	200 ppm (Skin; BEI)
	TLV (STEL)	250 ppm (Skin; BEI)
Quartz (fine fraction) (CAS NO# 14808-60-7)	TLV (STEL)	0.025 mg/m³ (respirable particulate matter)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Calcium Carbonate (CAS NO# 471-34-1)	REL (TWA)	10 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
Methanol (CAS NO# 67-56-1)	REL (TWA)	200 ppm (260mg/m³) (Skin)
	REL (STEL)	250 ppm (325mg/m³)(Skin)
Quartz (fine fraction) (CAS NO# 14808-60-7)	REL (TWA)	0.05 mg/m³ respirable dust

Engineering Measures Provide eyewash station and safety shower. Provide adequate ventilation. Avoid all unnecessary exposure.

Respiratory equipment No special requirement under normal use. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Hand protection No special requirement under normal use. It is recommended to wear appropriate protective gloves when there is the risk of greater exposure.

Eye/face protection Prevent contact with eyes. Wear safety glasses or goggles, if required.

Other protection No special requirement under normal use. It is recommended to wear appropriate protective clothing when there is the risk of greater exposure.

General hygiene considerations Keep away from food and drink. When using does not eat, drink or smoke. Wash hands before breaks and at the end of work.

9. Physical and chemical properties

Appearance

Form No information available.

Color No information available.

Odor	No information available.
Odor threshold	No information available.
pH	No information available.
Melting point	No information available.
Freezing point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No information available.
Flammability limit – upper (%)	No information available.
Explosive limit - lower (%)	No information available.
Explosive limit - upper (%)	No information available.
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	No information available.
Density	No information available.
Solubility(ies)	
Solubility (water)	No information available.
Partition coefficient (octanol/water)	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	No information available.

10. Stability and reactivity

Reactivity	No specific reactivity hazards associated with this product.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	None under recommended storage and handling condition.
Incompatible materials	No information available.
Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological information

Information on likely routes of exposure	
Ingestion	No information available.
Inhalation	No information available.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	No information available.
Delayed and immediate effects and also chronic effects from short- and long-term exposure	No information available.

Numerical measures of toxicity			
Chemical Name	**Oral LD_{50}**	**Dermal LD_{50}**	**Inhalation LC_{50}**
N-[3(trimethoxysilyl) propyl] ethylenediamine (CAS NO# 1760-24-3)	2,995 mg/kg (rat)	> 2,000 mg/kg (rabbit)	2,44 mg/l/4 h (Rat)
Dibutyltin oxide (CAS NO# 818-08-6)	172 mg/kg (rat)	No information available	No information available
Calcium Carbonate (CAS NO# 471-34-1)	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	> 3 mg/L, 4h
Stearic acid (CAS NO# 57-11-4)	> 2.000 mg/kg (rat)	> 5.000 mg/kg (rabbit)	No information available
Methanol (CAS#67-56-1)	100 mg/kg (Rat)	300 mg/kg (Rat)	3 mg/L (Rat), 4h

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization No information available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity The IARC reevaluated Titanium Dioxide (TiO_2) as a Group 2B carcinogen (possible human carcinogen) by inhalation (based solely on animal data). Human epidemiology studies do not suggest an increased risk of cancer in humans for occupational exposure to titanium dioxide. IARC stated that exposure levels are assumed lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints.

The IARC concluded that there is "sufficient evidence in humans for the carcinogenicity of crystalline silica in the form of quartz or cristobalite from occupational sources" is and that "sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite" exist. The Overall IARC was that "crystalline silica, which is inhaled in the form of quartz or cristobalite from occupational sources, carcinogenic to humans (Group 1)" is. The evaluation of the IARC stated that "carcinogenicity was not detected in all industrial circumstances. The carcinogenicity may depend on inherent characteristics of crystalline silica or external factors affecting its biological activity or distribution of polymorphs. Crystalline Silica (respirable) - NTP reports may reasonably be anticipated to be a carcinogen. Crystalline silica (quartz) is not regulated by the U.S. Occupational Safety and Health Administration as a carcinogen.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure No information available.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

Numerical measures of toxicity

Chemical Name	Test	Species	Test Results
N-[3(trimethoxysilyl)propyl] ethylenediamine (CAS NO# 1760-24-3)	Fish LC_{50}	Bluegill *(Lepomis macrochirus)*	> 100 mg/L, 96h
	Crustacean EC_{50}	Water flea (*Daphnia magna*)	87.4 mg/L, 48h
	Algae EC_{50}	Green microalgae (*Pseudokirchneriella subcapitata*)	8.8 mg/L, 96h
	Algae NOEC	Green microalgae (*Pseudokirchneriella subcapitata*)	3.1 mg/L
Dibutyltin oxide (CAS# 818-08-6)	Fish LC_{50}	Generic fish	1 mg/L, 48h
	Crustacean EC_{50}	Water flea *(Daphnia magna)*	2 mg/L, 48h
	Algae EC_{50}	Green algae *(Desmodesmus subspicatus)*	≥ 1.6 mg/L,72h
Calcium Carbonate (CAS# 471-34-1)	Fish LC_{50}	Rainbow trout (*Oncorhynchus mykiss)*	> 100 mg/L
	Crustacean EC_{50}	Water flea *(Daphnia magna)*	>100 mg/L
	Algae EC_{50}	Green algae *(Desmodesmus subspicatus)*	> 14 mg/L, 72h
	Algae NOEC	Green algae *(Desmodesmus subspicatus)*	14 mg/L

Persistence and degradability There are no data on the degradability of this product.

Bioaccumulative potential No data available on bioaccumulation.

Mobility in soil No data available.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes	Not applicable.		
Special Precaution(s)	Not applicable.		

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical substance Inventory.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None of the ingredients are listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
None of the ingredients are listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
Methanol (CAS NO# 67-56-1) Listed

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Not applicable.

SARA 313 (TRI reporting)
Methanol (CAS NO# 67-56-1) Listed

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Methanol (CAS NO# 67-56-1) Listed

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
None of the ingredients are listed.

Safe Drinking Water Act (SDWA)
Methanol (CAS NO# 67-56-1) Listed

US State regulations

US. New Jersey Worker and Community Right-to-Know Act
Titanium dioxide (CAS NO# 13463-67-7) Listed
Methanol (CAS NO# 67-56-1) Listed
Quartz (fine fraction) (CAS NO# 14808-60-7) Listed
Calcium Carbonate (CAS NO# 1317-65-3) Listed

US. Pennsylvania Worker and Community Right-to-Know Law
Titanium dioxide (CAS NO# 13463-67-7) Listed
Methanol (CAS NO# 67-56-1) Listed
Calcium Carbonate (CAS NO# 1317-65-3) Listed

US. California Proposition 65

WARNING: This product can expose you to chemicals including Titanium dioxide (airborne, unbound particles of respirable size), which is known to the State of California to cause cancer and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. Crystalline silica (quartz) (airborne particles of respirable size), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other information

Revision date	March 12, 2022
Version #	-
References	ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices ECHA: European Chemicals Agency IARC: International Agency for Research on Cancer OECD: Organization for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.