

SAFETY DATA SHEET

Section 1-IDENTIFICATION

GHS product identifier:
Other means of identification:
Product code:
Product type:
Identified uses:
Supplier/Manufacturer:
Suppliers details:
Emergency telephone number(with hrs of operation):

REJUVENATE GROUT RENEWER PENS
White ink 12/16/19

W250-W0001
Waterborne Paint
GROUT & TILE
KANGNAM KPI Co., Ltd.
784, Girin-daero, Deokjin-gu, Jeonju-si, Jeollabuk-do, Korea Tel:
+82-63-210-4114
Fax: +82-63-211-8888

Section 2- HAZARDS IDENTIFICATION

Osha/HCS status:
Classification of the substance or mixture:

SENSITIZATION-SKIN CATEGORY 1
Mixture



GHS Label Element

Signal word:
Hazard statements:

WARNING
May cause an allergic skin reaction

Precautionary statements

Prevention:
Response:
Storage:
Disposal:

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see ... on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Store between 5 deg. and 35 deg. Celsius in dry, well ventilated place away from sources of heat, ignition or direct sunlight.
Dispose of contents/container according to regulation.

Hazards not otherwise classified (HNOC)

Physical hazards not otherwise classified (PHNOC):
Health hazards not otherwise classified (HNOC):
Substance/Mixtures:
Other means of identification:

No applicable Information is Available
No applicable Information is Available
Mixture
No applicable Information is Available

Section 3- COMPOSITION/ INFORMATION ON INGREDIENTS

Substance/Mixture:
Other means of identification:

Mixture
Not Available

CAS number/ other identifiers

CHEMICAL NAME/ OTHER NAME	CAS#	CONTENT (%)
Water	7732-18-5	< 51.3
Titanium dioxide	13463-67-7	< 24.7
Acrylic copolymer	25133-97-5	< 8.8
Acrylic / Styrene copolymer	28263-96-9	<7.0
Propylene glycol	57-55-6	< 4.4
2-Butoxyethanol	111-76-2	< 2.6
Aluminum hydroxide	21645-51-2	< 0.7
Silicon dioxide	7631-86-9	< 0.2
3-Iodo-2-propynyl butylcarbamate	55406-53-6	< 0.3

Section 4- FIRST AID MEASURES

Description of necessary first aid measures

Eye contact:
Inhalation:
Skin Contact:

Do not rub your eyes. Immediately flush eyes with plenty of water for at least 15minutes and call a doctor/physician. Get medical attention immediately.
When exposed to large amounts of steam and mist, move to fresh air. Get medical attention immediately.
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Laundering enough contaminated clothing before reuse. Get medical attention immediately.

Ingestion:
Rinse your mouth with water immediately. Get medical attention immediately. About whether I should induce vomiting, take the advice of a doctor.

Most important symptoms/ effects, acute and delayed potential acute health effects

Eye contact:
Inhalation:
Skin contact:
Ingestion:

No Applicable Information Available
No Applicable Information Available
No Applicable Information Available
No Applicable Information Available

Over-exposure signs/ symptoms

Eye contact:
Inhalation:
Skin contact:
Ingestion:

No Applicable Information Available
No Applicable Information Available
No Applicable Information Available
No Applicable Information Available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:
Specific treatments:
Protection of first-aiders:

No Applicable Information Available
No Applicable Information Available
Keep unauthorized personnel out. Notify your local fire station and inform the location of the fire and characteristics hazard. Using an unattended and water devices in case of large fire and leave alone to burn if you do not imperative. Avoid inhalation of materials or combustion byproducts. Do not access if the tank on fire.

Section 5- FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:
Unsuitable extinguishing media:
Specific hazards arising from the chemical:
Hazardous thermal decomposition products:
Special protective actions for fire-fighters:
Special protective equipment for fire-fighters:

Dry chemical, carbon dioxide, regular foam extinguishing agent, spray. Avoid use of water jet for extinguishing.
No Applicable Information Available
Not available
No Applicable Information Available
No Applicable Information Available
Keep unauthorized personnel out. Notify your local fire station and inform the location of the fire and characteristics hazard. Using an unattended and water devices in case of large fire and leave alone to burn if you do not imperative. Avoid inhalation of materials or combustion byproducts. Do not access if the tank is on fire. Keep

Section 6- ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
For emergency responders:

No Applicable Information Available
Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation. Must work against the wind, let the upwind people to evacuate. Remove all sources of ignition

Environmental precautions:
Prevent runoff and contact with waterways, drains or sewers. If large amounts have been spilled, inform the relevant authorities.

Methods and materials for containment and cleaning up

Spill:
Stay upwind and keep out of low areas. Dike for later disposal. Notification to central government, local government. When emissions at least of the standard amount. Dispose of waste in accordance with local regulation. Appropriate container for disposal of spilled material collected.

Section 7- HANDLING AND STORAGE

Precautions for safe handling

Protective measures:
Wash thoroughly after handling. Avoid direct physical contact. Avoid contact with incompatible materials. Operators should wear antistatic footwear and clothing. Contaminated work clothing should not be allowed out of the workplace. Contaminated work clothing should not be allowed out of the workplace.

Advise on general occupational hygiene. Conditions for safe storage, including any incompatibilities:
Do not use damaged containers. Save applicable laws and regulations. Avoid direct sunlight. Keep in the original container. Prevent static electricity and keep away from combustible materials or heat sources. By specifying a storage area for carcinogenic substances. Collected them in sealed containers.

Section 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters United States

Occupational exposure limits:

CHEMICAL NAME	CAS#	ACGIH-TVL'S	OSHA PEL'S	NIOSH-TVL'S	OTHER
2-Butoxyethanol	111-76-2	TWA: 20ppm	TWA 50ppm	Not Listed	Not Listed
Aluminum hydroxide	21645-51-2	TWA: 10mg/m ³	TWA: 15mg/m ³	Not Listed	Not Listed
Silicon dioxide	7631-86-9	TWA: 10mg/m ³	TWA: 80mg/m ³	Not Listed	Not Listed
Titanium dioxide	13463-67-7	TWA: 15mg/m ³	Not Listed	Not Listed	Not Listed

[Control parameters Canada](#)

Occupational exposure limits: No Applicable Information Available
 Appropriate engineering controls: No Applicable Information Available
 Environmental exposure controls: No Applicable Information Available

[Individual protection measures](#)

Hygiene measures: No Applicable Information Available
 Eye/ face protection: No Applicable Information Available

[Skin protection](#)

Hand protection: Wear appropriate glove.
 Body protection: Wear appropriate clothing.
 Other skin protection: No Applicable Information Available
 Respiratory protection: No Applicable Information Available

Under conditions of frequent use or heavy exposure, Respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum.

Section 9- PHYSICAL AND CHEMICAL PROPERTIES

[Appearance](#)

Physical state: Liquid
 Color: White
 Odor: Mild solvent odor
 Odor threshold: No Applicable Information Available
 PH: 7.8
 Melting point: No Applicable Information Available
 Boiling point: No Applicable Information Available
 Flash point: >100°C
 Evaporation rate: No Applicable Information Available
 Flammability (solid, gas): No Applicable Information Available
 Lower and upper explosive (flammable limits): No Applicable Information Available
 Vapor pressure: No Applicable Information Available
 Vapor density: No Applicable Information Available
 Relative density: 1.33
 Solubility in water: Water soluble
 Partition coefficient n-octanol/water: No Applicable Information Available
 Auto-ignition temperature: No Applicable Information Available
 Decomposition temperature: No Applicable Information Available
 Viscosity: No Applicable Information Available
 VOC: 7%
Reportable CARB VOC: 7%

Section 10- STABILITY AND REACTIVITY

Reactivity: This material is stable under normal conditions
 Chemical stability: This material is stable under recommended storage and handling conditions
 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur
 Conditions to avoid: Hazardous Polymerization will not occur.
 Incompatible materials: Avoid contact with incompatible materials and condition. Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces.
 Hazardous decomposition products: May emit flammable vapor if involved in fire.

Section 11- TOXICOLOGICAL INFORMATION

[Information on toxicological effects](#)

Acute toxicity:

Compounds (CAS#)	ROUTE	SPECIES	EXPOSURE & DOSE
2-Butoxyethanol	ORAL	RAT	LD 50, 1300mg/kg
5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2-Hisothiazol-3-one (3:1)	ORAL	RAT	LD 50, 4467mg/kg
3-Iodo-2-propynyl butylcarbamate	ORAL	RAT	LD 50, >300-<500mg/kg
Propylene glycol	ORAL	RAT	LD 50, >20000g/kg
Aluminum hydroxide	ORAL	RAT	LD 50>2000mg/kg
Titanium dioxide	ORAL	RAT	LD 50, 1000mg/kg

Irritation/Corrosion: No Applicable Information Available
 Sensitization: SENSITIZATION-SKIN CATEGORY 1
 Mutagenicity: No Applicable Information Available
 Carcinogenicity: No Applicable Information Available
 Reproductive toxicity: No Applicable Information Available
 Teratogenicity: No Applicable Information Available
 Specific target organ toxicity (single exposure): No Applicable Information Available
 Specific target organ toxicity (repeated exposure): No Applicable Information Available
 Aspiration hazard: No Applicable Information Available
 Information on the likely routes of exposure: No Applicable Information Available

[Potential acute health effects](#)

Eye contact: No Applicable Information Available
 Inhalation: No Applicable Information Available
 Skin contact: No Applicable Information Available
 Ingestion: No Applicable Information Available

[Symptoms related to the physical, chemical and toxicological characteristics](#)

Eye contact: No Applicable Information Available
 Inhalation: No Applicable Information Available
 Skin contact: No Applicable Information Available
 Ingestion: No Applicable Information Available

[Delayed and immediate effects and also chronic effects from short term exposure](#)

Potential immediate effects: No Applicable Information Available
 Potential delayed effects: No Applicable Information Available

[Delayed and immediate effects and also chronic effects from long term exposure](#)

Potential immediate effects: No Applicable Information Available
 Potential delayed effects: No Applicable Information Available

[Potential chronic health effects](#)

General: No Applicable Information Available
 Carcinogenicity: No Applicable Information Available
 Mutagenicity: No Applicable Information Available
 Teratogenicity: No Applicable Information Available
 Developmental effects: No Applicable Information Available
 Fertility effects: No Applicable Information Available
 Numerical measures of toxicity/ acute toxicity estimates: No Applicable Information Available

Section 12- ECOLOGICAL INFORMATION

Toxicity: No Applicable Information Available
 Persistence and degradability: No Applicable Information Available
 Bioaccumulative potential: No Applicable Information Available

[Mobility in soil](#)

Soil/Water partition coefficient (Koc): No Applicable Information Available
 Other adverse effects: No Applicable Information Available

Section 13- DISPOSAL INFORMATION

Disposal methods:
Disposal Precautions:

Since more than two kinds of designed waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process. If water

The user of this product must disposal by oneself or entrust to waste disposer or person. Who other's waste recycle and dispose, person who establish and operate waste disposal facilities. Dispose of waste in accordance with all applicable laws and regulations.

Section 14- TRANSPORTATION				
UN number	DOT	TDG	IMDG	IATA
UN proper shipping name	Not Regulated	Not Regulated	Not Regulated	Not Regulated
Transport hazard class(es)				
Packing group				
Environmental hazards	No	No	No	No
Additional information				

AERG: No Applicable Information Available
Special precautions for user: No Applicable Information Available

Section 15- REGULATORY INFORMATION

U.S. Federal regulations: No Applicable Information Available
 Clean Air Act section 112 (B) Hazardous Air Pollutants (HAPs): No Applicable Information Available
 Clean Air Act Section 602 Class I Substances: No Applicable Information Available
 Clean Air Act Section 602 Class II Substances: No Applicable Information Available
 DEA List I Chemicals (Precursor Chemicals): No Applicable Information Available
 DEA List II Chemicals (Essential Chemicals): No Applicable Information Available
[SARA 302/304-Composition/ information on ingredients](#)
 Sara 304 RQ: No Applicable Information Available
[SARA 311/312](#)
 Classification: No Applicable Information Available
[SARA 313- State Regulations](#)
 Massachusetts: No Applicable Information Available
 New York: No Applicable Information Available
 New Jersey: No Applicable Information Available
 Pennsylvania: No Applicable Information Available
 California Proposition 65: No Applicable Information Available
[Canada- Canadian list](#)
 Canadian NPRI: No Applicable Information Available
 CEPA Toxic substances: No Applicable Information Available
 Canada inventory: No Applicable Information Available

Section 16- OTHER INFORMATION

[History](#)
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 Prepared by: FOR LIFE PRODUCTS
 Key Abbreviations:
 ATE= Acute Toxicity Estimate
 BCF= Bio-concentration Factor
 GHS= Globally Harmonized System of Classification and Labelling of Chemicals
 IATA= International Air Transport Association
 IBC= Intermediate Bulk Container
 IMDG= International Maritime Dangerous Goods
 LogPow= Logarithm of the octanol/water partition coefficient
 MARPOL 73/78= International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol"= marine pollution)
 UN= United Nations
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