1) IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Commercial name: NORTON CLIPPER CONCRETE GUARD LITHIUM

Use: Concrete sealer

Company Identification: Saint-Gobain
251 rue de l'Ambassadeur, 78700 Conflans, France
Tel: +33 (0)1 34 90 40 00 Fax: +33 (0)1 34 90 43 97
Web: www.nortonabrasives.com

2) HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture according to 1272/2008/EC

GHS classification
Hazard categories:
Skin corrosion/irritation: Skin irrit.2
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory/skin sensitization: Skin Sens. 1 Hazard Statements:
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage

2.2. Label elements

Pictograms: GHS05-GHS07

Signal word: Danger

Hazardous components which must be listed on the label
aminofunctional siloxane Potassium methylsilanetriolate

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

Accordin to regoaltion (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT/vPvB substances.

High risk of slipping due to leakage/spillage of product.

3) COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical characterization
Aqueous preparation of the following substances with non-hazardous admixtures

Hazardous components

Chemical name	Quantity	GHS classification
aminofunctional siloxane CAS	< 10 %	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1; H332 H318 H317
Silicic acid, lithium salt CAS 12627-14-4 EC 235-730-0 REACH 01-2119899248-18	< 15 %	STOT SE 3, Eye Dam. 1; H335 H318
Potassium Methylsilanetriolate CAS 31795-24-1 EC 250-807-9 REACH 01-2119517439-34	< 5%	Skin Corr. 1A H314

Full text of R and H phrases: see Section 16.

4) FIRST AID MEASURES

4.1. Description of first aid measures

General information
Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.
No specific precautions required.

After inhalation
Take affected person into fresh air.
Wash mouth and nasal passages with water.
If symptoms develop, seek medical attention.

After contact with skin
In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.

After contact with eyes
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lens.
Seek medical treatment by eye specialist.

After ingestion
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes serious eye damage.
Causes skin irritation.
May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

5) FIRE-FIGHTING MEASURE

5.1. Extinguishing media

Suitable extinguishing media
Product does not burn, fire-extinguishing activities according to surrounding.
Foam, carbon dioxide (CO2), dry chemical, water-spray.

Extinguishing media which must not be used for safety reasons
Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:
Hydrocarbons., Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).
Irritant/corrosive, flammable as well as toxic distillation gases/vapours.

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6) ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.
Use personal protective clothing.
High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

7) HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Avoid contact with the skin and the eyes.
Ensure adequate ventilation.

Advice on protection against fire and explosion
No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a dry, cool and well-ventilated place.
Keep away from heat.
Keep from freezing.

Advice on storage compatibility
Incompatible with strong acids and oxidizing agents.

Further information on storage conditions
Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Concrete sealer

8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Additional advise on limit values
No data available

8.2. Exposure controls

Protective and hygiene measures
Wash hands before breaks and at the end of workday.
Take off immediately all contaminated clothing.

Respiratory protection
No personal respiratory protective equipment normally required.

Hand protection
Neoprene, butyl or nitrile rubber gloves
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection
Tightly fitting goggles (EN 166).
Eye wash bottle with pure water (EN 15154).

Skin protection
Long sleeved clothing (EN 368).

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	White
Odour:	Slightly like ammonia

Test method

pH-Value (at 20 °C):	approx. 11

Changes in the physical state

Boiling point:	approx. 100 °C
Flash point:	n.a.
Lower explosion limits:	n.a.
Upper explosion limits:	n.a.
Ignition temperature:	n.a.
Vapour pressure (at 20 °C):	approx. 22 hPa
Density (at 20 °C):	1,106 g/cm³
Water solubility (at 20 °C):	> 95 % g/L

10) STABILITY AND REACTIVITY

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with oxidizing agents. Strong exothermic reaction with acids.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Fire may produce:
Hydrocarbons , Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx).
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

11) TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity
No toxicological data available.
aminofunctional siloxane
Acute inhalation toxicity ATE 1,5 mg/l

Irritation and corrosivity
Skin irritation: Irritant
Eye irritation: Causes serious eye damage.

Sensitising effects
May cause an allergic skin reaction (aminofunctional siloxane)

Severe effects after repeated or prolonged exposure
STOT/Single exposure: Not classified.
STOT/Repeated exposure: Not classified.
Aspiration hazard: Not classified.

Carcinogenic/mutagenic/toxic effects for reproduction
Carcinogenicity: Not classified.
Mutagenicity: Not classified.
Reproductive toxicity: Not classified.

Additional information on tests
Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Empirical data on effects on humans
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Further information
If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

12) ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological data are not available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

A pH-change becomes possible in water.
Low hazard to waters.

Further information
Do not flush into surface water or sanitary sewer system.

13) DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Advice on disposal
Can be landfilled after chemical and physical treatment, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products
080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS wastes from MFSU and removal of paint and varnish waste paint and varnish containing organic solvents or other dangerous substances Classified as hazardous waste.

Contaminated packaging
Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

14) TRANSPORT INFORMATION

14.1. UN number:

No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

No hazardous material as defined by the transport regulations.

14.3. Transport hazard class (es)

No hazardous material as defined by the transport regulations.

14.4. Packing group:

No hazardous material as defined by the transport regulations.

14.5. Environmental hazard:

No hazardous material as defined by the transport regulations.

14.6. Special precautions for user:

No hazardous material as defined by the transport regulations.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No hazardous material as defined by the transport regulations.

15) REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information
1999/13/EC (VOC): 0 %

National regulatory information
Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

16) OTHER INFORMATION

Changes in chapter: 2, 3, 4, 11

Abbreviations and acronyms

ADR =	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID =	Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN =	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG =	International Maritime Code for Dangerous Goods
IATA/ICAO =	International Air Transport Association / International Civil Aviation Organization
MARPOL =	International Convention for the Prevention of Pollution from Ships
IBC =	Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
GHS =	Globally Harmonized System of Classification and Labelling of Chemicals
REACH =	Registration, Evaluation, Authorization and Restriction of Chemicals
CAS =	Chemical Abstract Service
EN =	European norm
ISO =	International Organization for Standardization
VOC =	Volatile organic compound
STOT SE =	Specific target organ toxicity single exposure
STOT RE =	Specific target organ toxicity repeated exposure
PBT =	Persistent Bioaccumulative and Toxic
vPvB =	Very Persistent and very Bio-accumulative
bw =	body weight
LD =	Lethal dose
LC =	Lethal concentration
EC =	Effect concentration
IC =	Median immobilisation concentration or median inhibitory concentration

Full text of H statements referred to under Sections 2 and 3

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.
The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.
The delivery specifications are contained in the corresponding product sheet.
This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.
(n.a. = not applicable; n.d. = not determined)

CONCRETE GUARD LITHIUM

Issued in: 01/2024

PRODUCT DESCRIPTION

CONCRETE GUARD LITHIUM is a high-gloss, stain and wear resistant finish for improving the sheen, hardness and chemical resistance of natural and cast stone, terrazzo, masonry, and other cement-based surfaces. The product makes an extremely hard micro-coating that tenaciously bonds and reacts with the substrate forming an insoluble bond with the surface.

CONCRETE GUARD LITHIUM is non-toxic, non-hazardous, and VOC compliant in all areas of the world with less than 50 grams per litre VOC content. It is mark-resistant, fast drying and nonstreaking.

The treatment is used in conjunction with a high speed burnisher on non-porous stone, masonry and cement based building materials to provide superior clarity and improved resistance against water and water-borne stains from accidental spills, oils, dirt and grime.

Ideal for ground and polished concrete surfaces as well as integrally coloured, dyed and/or stained concrete.

CONCRETE GUARD LITHIUM enhances the colour intensity of natural and cast stone, and integrally coloured, dyed, or acid stained decorative concrete. It also reduces efflorescence and mineral deposits making treated surfaces shiner and more attractive.

KEY BENEFITS

- Delivers rapid shine development with increased abrasion, stain resistance, and gloss retention.
- Keeps dirt and contaminants from penetrating, making cleaning faster, more effective and more economical.
- Ready to use in a few hours – rapidly cures into a durable finish for facilities that require maximum protection and little-to-no downtime.
- Forms a protective "micro surface layer" that is breathable, dense, abrasion resistant, and that will not peel or flake.
- Reduces maintenance, cleaning costs and costly repairs. Simply damp mop or machine scrub.
- No build up – periodic re-application is simple and requires no stripping.
- Prolongs shine of polished concrete surfaces.
- Safe for food contact per SGS Testing (21 CFR 175.300).

USES

INTERIOR FLOORING NON-POROUS GROUND, HONED, POLISHED OR BURNISHED CONCRETE SURFACES.

Commercial: Grocery Stores, Office Building, Retail, Banks, Malls, Warehouses ,distribution, supermarket etc.

Industrial: Food Processing Facilities, Cold Storage / Freezers, Beverage and manufacturing Plants

Institutional: Churches, Hospitals, Universities, Schools, Museums

Theme & Leisure: Resorts, Hotels, Casinos, Restaurants,

Residential: Concrete floors and Garages

HOW TO USE

Surface Preparation: For best results, apply after polishing with Norton Clipper CG Polish Resin pads up to grit 400.

Cleaning: Be sure that the surface is clean and dry. Cleaning with an automatic scrubbing machine with a neutral to alkali cleaner is recommended.

Apply CONCRETE GUARD LITHIUM using a micro fibre pad that has been pre-dampened with water. Using a pump up sprayer, spray lightly over the top of the area to be treated, and then spread material thinly and evenly using the micro fibre pad over the rest of the area.

For best results, limit the size of the area being treated at any one time to a 6m x 6m section. Spread at a rate 1 litre for 40 – 60 sq m depending on porosity of the surface.

Spray another line of material when the applicator pad begins to drag. Do not work material into the surface–spread it and leave it.

Allow to dry for at least 30-60 minutes. Then complete final polishing steps with a Non-woven pad .

Apply a second or even a third coat of CONCRETE GUARD LITHIUM. Second applications will improve sheen and stain protection. Buffing with a high speed burnishing machine and a non-woven beartex pad between coats is recommended and will speed curing and improve sheen. Second coats will usually take no more than 1 litre for 70 – 100 sq m.

Finally: buff or polish the surface.

Do not cover treated surfaces for at least 1 week as protective coverings may slow curing and cause some whiting by trapping moisture.

CONCRETE GUARD LITHIUM

MAINTENANCE

Routine sweeping, mopping, washing and mechanical scrubbing of floors with STONE SOAP it is suggested. DO NOT USE cleaners that are acidic or that have citrus (d-Limonene) or Butyl compounds.

Although CONCRETE GUARD LITHIUM is chemically resistant and helps reduce staining, some compounds, especially acids, may damage the surface, and therefore it may not be suitable for some applications. If unsure, check with a Norton Clipper technical representative. Regular maintenance and cleaning will help prolong surface shine. Wipe up any chemical spills as soon as possible.

ADVICE

Avoid citrus or butyl compounds when cleaning. BETON GUARD LITHIUM will not bond to acidic surfaces so if applying over an acid stain, neutralize thoroughly first.

Mixing: Lightly stir before each use. Do not over mix or bubbles and/or foaming can occur and make uniform application more difficult.

ESTIMATED COVERAGE

1st coat: 40 – 70 sq m/lit

2nd and subsequent coats: 70 – 100 sq m/lit

Texture and absorption of surface will determine final coverage rates. Porous concrete surfaces may require additional material.

Clean Up–Wash equipment with soap and water. Although CONCRETE GUARD LITHIUM is non-toxic and environmentally friendly, it is alkali. Use the material completely, or dry it out and dispose of it properly per local regulations. Do not pour down sanitary sewers or into storm drains.

PROPERTIES

Active Ingredients:	100% of total solids
Specific Gravity:	1.09
pH:	11.5
VOC Content:	<50g/L
Flash Point:	N/A
Freeze Point:	32ºF (0ºC)
Shelf Life:	1 Year in unopened factory sealed container

V.O.C.

Less than 50 g/L. Compliant with all US VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

PACKAGING

5 Litre

SAFETY HEALTH INFORMATION

KEEP OUT OF REACH OF CHILDREN. Dispose of waste material in accordance with federal, state and local requirements. Although the material is non-toxic and non-hazardous, the treatment is alkaline and may cause eye and skin irritation.

Wear eye protection and gloves. If splashed in eyes, rinse with water and consult a doctor if irritation persists. Wash promptly from skin. Do not take internally – if swallowed, do not induce vomiting – drink water and call a physician. Avoid contact with eyes. Protective clothing is recommended. Surfaces may be slippery when wet with product. Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet (SDS).

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Use on interior surfaces only. Protect from freezing. Agitate before use. Do not allow standing water to dwell on surface for 7 days following application. Do not allow traffic on surface until it is dry – typically 30-60 minutes. CONCRETE GUARD LITHIUM will not bridge or fill cracks, and will not salvage honeycombed or structurally unsound surfaces.

CONCRETE GUARD LITHIUM quickly bonds to most surfaces including metal, wood, glass, and paint. Protect adjacent surfaces. Remove overspray quickly with a damp cloth and soap. Always do a test patch before beginning the job to verify coverage, appearance, and surface material variations.

This information corresponds to our actual knowledge.

Nevertheless, as product use conditions are out of our control, we can't take responsibility for the consequences of incorrect or improper use. We recommend always doing a patch test of the product in the required area before commencing full application.

Saint-Gobain. reserves the right to modify, without notice, characteristics, models and prices.