

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures
Product name : Smart Strip 1 HD

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public
Use of the substance/mixture : Coatings and paints, thinners, paint removers

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Dumond Chemicals, Inc.
1475 Phoenixville Pike Suite 18
19380 West Chester, PA - USA
T +1 (609) 655-7700 - F +1 (609) 655-7725
info@dumondglobal.com - www.dumondchemicals.com

1.4. Emergency telephone number

Emergency number : +1 (352) 323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1A H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Hazardous ingredients :

sodium hydroxide; Calcium hydroxide

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

Precautionary statements (CLP) :

P102 - Keep out of reach of children
P260 - Do not breathe fume, dust
P264 - Wash hands, forearms and face thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective gloves, protective clothing
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
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/doctor
P312 - Call a poison center or doctor if you feel unwell
P321 - Specific treatment (see First aid measures on this label)
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 0.5% of the mixture consists of ingredient(s) of unknown acute oral toxicity
0.5% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0.5% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium hydroxide	(CAS No) 1305-62-0 (EC No) 215-137-3	15 - 25	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
sodium hydroxide	(CAS No) 1310-73-2 (EC No) 215-185-5 (EC Index No) 011-002-00-6 (REACH-no) 01-2119457892-27-0064	5 - 10	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
Starch	(CAS No) 9005-25-8 (EC No) 232-679-6	1 - 2	Not classified
Magnesium oxide	(CAS No) 1309-48-4 (EC No) 215-171-9	1 - 2	Not classified
limestone	(CAS No) 1317-65-3 (EC No) 215-279-6	1 - 2	Not classified
Silicon dioxide (cristobalite)	(CAS No) 14808-60-7 (EC No) 238-878-4	0.1 - 1	Carc. 1A, H350i

Specific concentration limits:

Name	Product identifier	Specific concentration limits
sodium hydroxide	(CAS No) 1310-73-2 (EC No) 215-185-5 (EC Index No) 011-002-00-6 (REACH-no) 01-2119457892-27-0064	(0.5 =<C < 2) Eye Irrit. 2, H319 (0.5 =<C < 2) Skin Irrit. 2, H315 (2 =<C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed: Get immediate medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. Artificial respiration and/or oxygen if necessary.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting.

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

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes severe skin burns and eye damage.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
Explosion hazard : Product is not explosive.
Hazardous decomposition products in case of fire : Burning produces irritating, toxic and noxious fumes.

5.3. Advice for firefighters

- Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Do not allow run-off from fire fighting to enter drains or water courses. Keep upwind.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not breathe aerosol. Avoid contact with skin, eyes and clothing.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves resistant to chemical penetration. Chemical goggles or safety glasses.
Emergency procedures : Evacuate unnecessary personnel. Keep upwind.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. EN 943-2.
Emergency procedures : Ventilate area. Stop leak if safe to do so. Keep upwind.

6.2. Environmental precautions

- Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Do not allow minor leaks or spills to accumulate on walking surfaces.
Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Small spills: Wipe up with absorbent material (for example cloth).

6.4. Reference to other sections

- Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe spray, mist, vapours. Avoid contact during pregnancy/while nursing. Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area.
Hygiene measures : Wash hands, forearms and face thoroughly after handling. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
Storage conditions : Keep container tightly closed. Do not store near food, foodstuffs, drugs, or potable water supplies.
Incompatible products : Acids.
Prohibitions on mixed storage : Incompatible materials.
Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

- Coatings and paints, thinners, paint removers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Starch (9005-25-8)

Belgium	Limit value (mg/m ³)	10 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Portugal	Local name	Amido
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Spain	Local name	Almidón
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol

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Starch (9005-25-8)

Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)

sodium hydroxide (1310-73-2)

Austria	MAK (mg/m ³)	2 mg/m ³ (einatembare Fraktion)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ max. 8x5 min./Schicht (einatembare Fraktion) (gemessen als Momentanwert)
Czech Republic	Local name	Hydroxid sodný
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	2 mg/m ³
Czech Republic	Remark (CZ)	I
Denmark	Local name	Natriumhydroxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³
Denmark	Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides)
Finland	Local name	Natriumhydroksidi
Finland	HTP-arvo (15 min)	2 mg/m ³
Finland	Huomautus (FI)	kattoarvo
France	Local name	Hydroxyde de sodium
France	VME (mg/m ³)	2 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
Hungary	Local name	NÁTRIUM-HIDROXID
Hungary	AK-érték	2 mg/m ³
Hungary	CK-érték	2 mg/m ³
Hungary	Megjegyzések (HU)	m; l.
Ireland	OEL (15 min ref) (mg/m ³)	2 mg/m ³
Latvia	Local name	Nātrijahidroksīds (nātrijasārms, kaustiskāsoda)
Latvia	OEL TWA (mg/m ³)	0.5 mg/m ³
Lithuania	NRV (mg/m ³)	2 mg/m ³
Lithuania	Remark (LT)	Ū
Poland	Local name	Wodorotlenek sodu
Poland	NDS (mg/m ³)	0.5 mg/m ³
Poland	NDSch (mg/m ³)	1 mg/m ³
Portugal	Local name	Hidróxido de sódio
Portugal	OEL - Ceilings (mg/m ³)	2 mg/m ³
Slovakia	Local name	Hydroxid sodný
Slovakia	NPHV (priemerná) (mg/m ³)	2 mg/m ³
Slovenia	Local name	natrijev hidroksid
Slovenia	OEL TWA (mg/m ³)	2 mg/m ³
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³
Spain	Local name	Hidróxido de sodio
Spain	VLA-EC (mg/m ³)	2 mg/m ³
Sweden	Local name	Natriumhydroxid
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	2 mg/m ³ inhalerbart damm
Sweden	takgränsvärde (TGV) (mg/m ³)	2 mg/m ³
Sweden	Anmärkning (SE)	inhalable dust
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³
Norway	Local name	Natriumhydroksid
Norway	Grenseverdier (AN) (mg/m ³)	2 mg/m ³
Norway	Grenseverdier (Takverdi) (mg/m ³)	2 mg/m ³
Norway	Merknader (NO)	T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides)

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sodium hydroxide (1310-73-2)

Switzerland	VME (mg/m ³)	2 mg/m ³
Switzerland	VLE (mg/m ³)	2 mg/m ³
Switzerland	Remark (CH)	(einatembarer Staub)

Calcium hydroxide (1305-62-0)

EU	Local name	Calcium dihydroxide
EU	IOELV TWA (mg/m ³)	5 mg/m ³
EU	IOELV STEL (mg/m ³)	4 mg/m ³ Respirable fraction
Austria	MAK (mg/m ³)	2 mg/m ³ (einatembare Fraktion)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ (einatembare Fraktion) max. 8x5 min./Schicht
Belgium	Limit value (mg/m ³)	5 mg/m ³
Belgium	Remark (BE)	(hydroxyde de)
Czech Republic	Local name	Hydroxid vápenatý
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	4 mg/m ³
Denmark	Local name	Calciumhydroxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³
Denmark	Grænseværdie (kortvarig) (mg/m ³)	10 mg/m ³
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Finland	Local name	Kalsiumhydroksidi
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
France	Local name	Hydroxyde de calcium
France	VME (mg/m ³)	5 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
Germany	Local name	Calciumdihydroxid
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1 mg/m ³ E (mg/m ³)
Germany	Remark (TRGS 900)	Y,EU,DFG
Hungary	Local name	KALCIUM-HIDROXID
Hungary	AK-érték	5 mg/m ³
Hungary	Megjegyzések (HU)	EU91
Ireland	OEL (8 hours ref) (mg/m ³)	5 mg/m ³
Latvia	Local name	Kalcijahidroksīds, (kalcijadihidroksīds)
Latvia	OEL TWA (mg/m ³)	5 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Lithuania	Remark (LT)	O
Netherlands	Local name	Calciumdihydroxide
Netherlands	Grenswaarde TGG 8H (mg/m ³)	5 mg/m ³
Poland	Local name	Wodorotlenek wapnia
Poland	NDS (mg/m ³)	2 mg/m ³
Portugal	Local name	Hidróxido de cálcio
Portugal	OEL TWA (mg/m ³)	5 mg/m ³
Slovakia	Local name	Hydroxid vápenatý
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³
Slovenia	Local name	kalcijev dihidroksid
Slovenia	OEL TWA (mg/m ³)	5 mg/m ³
Spain	Local name	Hidróxido de calcio
Spain	VLA-ED (mg/m ³)	5 mg/m ³
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
Sweden	Local name	Kalciumhydroxid

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Calcium hydroxide (1305-62-0)

Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	6 mg/m ³ inhalerbart damm
Sweden	Anmärkning (SE)	(inhalerbart damm)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³
Norway	Local name	Kalsiumhydroksid
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet)
Switzerland	VME (mg/m ³)	5 mg/m ³
Switzerland	Remark (CH)	(einatembarer Staub)

Magnesium oxide (1309-48-4)

Belgium	Remark (BE)	(oxyde de) (fumées)
Czech Republic	Local name	Oxid ho e natý
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³
Denmark	Local name	Magnesiumoxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	6 mg/m ³ beregnet som Mg
Denmark	Grænseværdie (kortvarig) (mg/m ³)	12 mg/m ³
France	Local name	Oxyde de magnésium
France	VME (mg/m ³)	10 mg/m ³ (fumées)
France	Note (FR)	respirable aerosol
Germany	Local name	Magnesiumoxid (außer Magnesiumoxid-Rauch)
Hungary	Local name	MAGNÉZIUM-OXID (Mg-ra számítva)
Hungary	AK-érték	6 mg/m ³
Hungary	CK-érték	24 mg/m ³
Hungary	Megjegyzések (HU)	i
Ireland	OEL (8 hours ref) (mg/m ³)	4 mg/m ³ respirable dust 5 mg/m ³ fume 10 mg/m ³ total inhalable dust
Ireland	OEL (15 min ref) (mg/m ³)	10 mg/m ³ fume
Poland	NDS (mg/m ³)	5 mg/m ³ dymy 10 mg/m ³ pyly
Portugal	Local name	Óxido de magnésio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Slovakia	Local name	Oxid horečnatý
Slovakia	NPHV (priemerná) (mg/m ³)	10 mg/m ³ 4 mg/m ³ (inhalovateľná frakcia)
Spain	Local name	Óxido de Magnesio
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (humos y polvo)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (fume and respirable dust)
Norway	Local name	Magnesiumoksid
Norway	Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Norway	Merknader (NO)	1)
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
Silicon dioxide (cristobalite) (14808-60-7)		
EU	Local name	Silica crystalline (Quartz)
EU	Notes	SCOEL Recommendations (2003)
Austria	MAK (mg/m ³)	0.15 mg/m ³
Austria	Remark (AT)	(alveolengängige Fraktion; Jahres-Miw)
Belgium	Limit value (mg/m ³)	0.1 mg/m ³
Belgium	Remark (BE)	(poussières alvéolaires)
Denmark	Local name	Kvarts
Denmark	Grænseværdie (langvarig) (mg/m ³)	0.3 mg/m ³ (inhalable aerosol) 0.1 mg/m ³ (K, respirable aerosol)

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Silicon dioxide (cristobalite) (14808-60-7)

Denmark	Grænseværdie (kortvarig) (mg/m ³)	0.6 mg/m ³ (inhalable aerosol) 0.2 mg/m ³ (K, respirable aerosol)
Finland	Local name	Kvartsi
Finland	HTP-arvo (8h) (mg/m ³)	0.05 mg/m ³
Finland	Huomautus (FI)	(alveolijae)
France	Local name	Quartz (Silices cristallines)
France	VME (mg/m ³)	0.1 mg/m ³
France	Note (FR)	(poussières alvéolaires de quartz)
Hungary	AK-érték	0.15 mg/m ³
Hungary	Megjegyzések (HU)	(respirable aerosol)
Ireland	OEL (8 hours ref) (mg/m ³)	0.1 mg/m ³
Lithuania	IPRV (mg/m ³)	0.1 mg/m ³
Lithuania	Remark (LT)	(Pīūrēk IX skyriaus 3 pastabà)
Netherlands	Local name	Silicium(di)oxide – kwarts
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0.075 mg/m ³
Netherlands	Remark (MAC)	(Voor respirabel stof) (kankerverwekkende stoff)
Poland	NDS (mg/m ³)	2 mg/m ³ (krzemionke powyzej 50%; pyl calkowity) 0.3 mg/m ³ (krzemionke powyzej 50%; pyl respirabilny) 2 mg/m ³ (krzemionke od 2% do 50%; pyl calkowity) 0.3 mg/m ³ (krzemionke od 2% do 50%; pyl respirabilny)
Portugal	Local name	Silica, cristalina α - Quartzo
Portugal	OEL TWA (mg/m ³)	0.025 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0.1 mg/m ³
Slovakia	Upozornenie (SK)	(Dokázaný karcinogén pre ludi, R)
Slovenia	Local name	kremen
Slovenia	OEL TWA (mg/m ³)	0.15 mg/m ³
Spain	Local name	Sílice Cristalina (Cuarzo)
Spain	VLA-ED (mg/m ³)	0.1 mg/m ³
Spain	Notes	(respirable aerosol)
Sweden	Local name	Kvarts
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.1 mg/m ³
Sweden	Anmärkning (SE)	(respirabelt damm; M, 1)
Norway	Local name	α-kvarts
Norway	Grenseverdier (AN) (mg/m ³)	0.3 mg/m ³ Totalstøv 0.1 mg/m ³ Respirabelt støv
Norway	Merknader (NO)	K (Kjemikalier som skal betraktes som kreftfremkallende); 7) Støv som inneholder α-kvarts, kristobalitt og/eller tridymitt vurderes ut fra summasjonsformel. Samtidig må verdiene for sjenerende støv overholdes
Switzerland	VME (mg/m ³)	0.15 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)
limestone (1317-65-3)		
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(carbonate de)
Hungary	AK-érték	10 mg/m ³
Hungary	Megjegyzések (HU)	inhalable aerosol
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust)
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	(respirable aerosol)

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8.2. Exposure controls

Appropriate engineering controls	: Avoid splashing. Ensure good ventilation of the work station. Provide local exhaust ventilation of closed transfer systems to minimize exposures.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. EN374
Eye protection	: Chemical goggles or safety glasses. EN166
Skin and body protection	: Wear suitable protective clothing. Safety suit.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Filter type. EN 136. EN 140. EN 145
Environmental exposure controls	: Prevent leakage or spillage. Prevent contaminated water run-off.
Consumer exposure controls	: Keep out of reach of children. Avoid contact during pregnancy/while nursing.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste.
Colour	: white.
Odour	: odourless.
Odour threshold	: No data available
pH	: 12
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.33
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

Acids.

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10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours. Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
Magnesium oxide (1309-48-4)	
LD50 oral rat	3990 mg/kg
limestone (1317-65-3)	
LD50 oral rat	6450 mg/kg
Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS	: 0.5% of the mixture consists of ingredient(s) of unknown acute oral toxicity 0.5% of the mixture consists of ingredient(s) of unknown acute dermal toxicity 0.5% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No ecotoxicological data about this product are known.
sodium hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l 96 h <i>Oncorhynchus mykiss</i>
limestone (1317-65-3)	
LC50 fish 1	> 200 mg/l

12.2. Persistence and degradability

Smart Strip 1 HD	
Persistence and degradability	Not established.
Magnesium oxide (1309-48-4)	
Persistence and degradability	Not established.
limestone (1317-65-3)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Smart Strip 1 HD	
Bioaccumulative potential	Not established.
Magnesium oxide (1309-48-4)	
Bioaccumulative potential	Not established.
limestone (1317-65-3)	
Bioaccumulative potential	Does not bioaccumulate significantly.

12.4. Mobility in soil

Smart Strip 1 HD	
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

Smart Strip 1 HD	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

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12.6. Other adverse effects

Additional information : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.
European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
16 03 03* - inorganic wastes containing dangerous substances
HP Code : H8 - 'Corrosive': substances and preparations which may destroy living tissue on contact.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1823
UN-No. (IMDG) : 1823
UN-No. (IATA) : 1823
UN-No. (ADN) : 1823
UN-No. (RID) : 1823

14.2. UN proper shipping name

Proper Shipping Name (ADR) : SODIUM HYDROXIDE, SOLID (Mixtures)
Proper Shipping Name (IMDG) : SODIUM HYDROXIDE, SOLID (Mixtures)
Proper Shipping Name (IATA) : SODIUM HYDROXIDE, SOLID (Mixtures)
Proper Shipping Name (ADN) : SODIUM HYDROXIDE, SOLID (Mixtures)
Proper Shipping Name (RID) : SODIUM HYDROXIDE, SOLID (Mixtures)
Transport document description (ADR) : UN 1823 SODIUM HYDROXIDE, SOLID (Mixtures), 8, II, (E)
Transport document description (IMDG) : UN 1823 SODIUM HYDROXIDE, SOLID (Mixtures), 8, II
Transport document description (IATA) : UN 1823 SODIUM HYDROXIDE, SOLID (Mixtures), 8, II
Transport document description (ADN) : UN 1823 SODIUM HYDROXIDE, SOLID (Mixtures), 8, II
Transport document description (RID) : UN 1823 SODIUM HYDROXIDE, SOLID (Mixtures), 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8

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ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

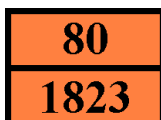
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C6
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P002, IBC08
Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR) : T3
Portable tank and bulk container special provisions (ADR) : TP33
Tank code (ADR) : SGAN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V11
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

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EAC code : 2W

- Transport by sea

Limited quantities (IMDG) : 1 kg
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B2, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Segregation (IMDG) : SG35

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y844
PCA limited quantity max net quantity (IATA) : 5kg
PCA packing instructions (IATA) : 859
PCA max net quantity (IATA) : 15kg
CAO packing instructions (IATA) : 863
CAO max net quantity (IATA) : 50kg
ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C6
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C6
Limited quantities (RID) : 1kg
Excepted quantities (RID) : E2
Packing instructions (RID) : P002, IBC08
Special packing provisions (RID) : B4
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T3
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAN
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W11
Colis express (express parcels) (RID) : CE10
Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

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VOC content : 0 %

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Starch, Silicon dioxide (cristobalite) are listed

SZW-lijst van mutagene stoffen : Starch is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Exposure controls/personal protection

Abbreviations and acronyms:

ATE: Acute Toxicity Estimate

CAS (Chemical Abstracts Service) number

CLP: Classification, Labelling, Packaging.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

European List of Waste (LoW) code

LD50: Lethal Dose for 50% of the test population

PBT: Persistent, Bioaccumulative, Toxic

STEL: Short Term Exposure Limits

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average

Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.
Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
Manufacturer Information.
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
United Nations Economic Commission for Europe: About the GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A

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Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350i	May cause cancer by inhalation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1A	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
STOT SE 3	H335	Calculation method

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product