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## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Drewclean™ 20  
CLEANER  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries

### Recommended use of the chemical and restrictions on use

<b>Details of the supplier of the safety data sheet</b> Solenis Singapore Pte Ltd #07-01/02 Pantech 21 Singapore 128388 Singapore  EHSProductSafetyTeam@solenis.com	<b>Emergency telephone number</b> 001 800-7653-6472 , or contact your local emergency telephone number at 995  <b>Product Information</b> +65 6775 5366
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## 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin corrosion/irritation : Category 1

Serious eye damage/eye irritation : Category 1

### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust or mist.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off

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immediately all contaminated clothing. Rinse skin with water/  
 shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air  
 and keep comfortable for breathing. Immediately call a  
 POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with  
 water for several minutes. Remove contact lenses, if present  
 and easy to do. Continue rinsing. Immediately call a POISON  
 CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste  
 disposal plant.

**Other hazards which do not result in classification**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
SULFAMIC ACID	5329-14-6		95,20
SODIUM BORATE DECAHYDRATE	1303-96-4		2,70
MAGNESIUM OXIDE	1309-48-4		1,00

**4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.

If inhaled : Move to fresh air.  
 If breathed in, move person into fresh air.  
 Keep patient warm and at rest.  
 If unconscious place in recovery position and seek medical  
 advice.  
 If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.  
 Wash contaminated clothing before re-use.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

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of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.

If swallowed : Get medical attention immediately.  
 Do NOT induce vomiting.  
 Rinse mouth with water.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Pulmonary edema may be delayed.  
 Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 Nose bleeding  
 Cough  
 hair loss  
 Shortness of breath  
 lung edema (fluid buildup in the lung tissue)  
 Causes serious eye damage.  
 Causes severe burns.

Notes to physician : No hazards which require special first aid measures.

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**5. FIREFIGHTING MEASURES**


Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Organic dusts at sufficient concentration can form explosive mixtures in air.  
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : acid vapors  
 Ammonia  
 sulfur oxides  
 Nitrogen oxides (NOx)  
 magnesium oxide fumes

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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Product is compatible with standard fire-fighting agents.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid dust formation.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid dust formation.  
Do not breathe vapours/dust.  
Do not smoke.  
When diluting, always add the product to water. Never add water to the product.  
Container hazardous when empty.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
No smoking.  
Electrical installations / working materials must comply with the technological safety standards.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SODIUM BORATE DECAHYDRATE	1303-96-4	TWA	5 mg/m <sup>3</sup>	SG OEL
		TWA (Inhalable fraction.)	2 mg/m <sup>3</sup> Inhalable fraction.	PY OEL
		STEL (Inhalable fraction.)	6 mg/m <sup>3</sup> Inhalable fraction.	PY OEL
MAGNESIUM OXIDE	1309-48-4	TWA (Fume.)	10 mg/m <sup>3</sup> Fume.	SG OEL
		(Fume.)		SG OEL
		TWA (Inhalable fraction.)	10 mg/m <sup>3</sup> Inhalable fraction.	PY OEL

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.  
 Provide appropriate exhaust ventilation at places where dust is formed.

**Personal protective equipment**

Hand protection

Remarks

: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection


: Wear chemical splash goggles and face shield to protect eyes and skin from airborne dust.  
 Maintain eye wash station in immediate work area.

Skin and body protection

: Wear as appropriate:  
 Chemical resistant apron  
 Safety shoes  
 Dust impervious protective suit  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures

: Avoid breathing dust.  
 Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 Ensure that eyewash stations and safety showers are close to the workstation location.

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When using do not smoke.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Physical state	: solid
Colour	: green
Odour	: No data available
Odour Threshold	: No data available
pH	: 1,5
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 68,6598 hPa (2.832 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: No data available
Density	: +/- 0.14 1,12 g/cm3
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

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Oxidizing properties : No data available

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**10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Acids  
Alkali metals  
Chlorine  
chlorine trifluoride  
metal hydrides  
metal salts  
phosphorus pentachloride  
strong bases  
Strong oxidizing agents  
strong reducing agents

Hazardous decomposition products : acid vapors  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Ammonia

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**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:**

**SULFAMIC ACID:**

Acute oral toxicity : LD 50 (Rat): 3.160 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: Not classified as acutely toxic by dermal

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absorption under GHS.

**SODIUM BORATE DECAHYDRATE:**

Acute oral toxicity : LD 50 (Rat): 4.500 - 5.000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 0,002 mg/l  
Exposure time: 4 h

LC 50 (Rat): &gt; 2 mg/l

Acute dermal toxicity : LD 50 (Rabbit): &gt; 10.000 mg/kg

**MAGNESIUM OXIDE:**

Acute oral toxicity : LD 50 (Rat): &gt; 5.000 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks: Causes severe skin burns and eye damage.

**Components:****SULFAMIC ACID:**

Result: Severely irritating to skin

**SODIUM BORATE DECAHYDRATE:**

Result: Irritating to skin

**MAGNESIUM OXIDE:**

Result: Possibly irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:****SULFAMIC ACID:**

Result: Irritating to eyes

**SODIUM BORATE DECAHYDRATE:**

Result: Irritating to eyes

**MAGNESIUM OXIDE:**

Result: Possibly irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****SULFAMIC ACID:**Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium



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Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: No data available

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**12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****SULFAMIC ACID:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 70,3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203


Toxicity to daphnia and other : EC50 (Water flea (Daphnia magna)): 71,6 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 48 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 18 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

**SODIUM BORATE DECAHYDRATE:**

Toxicity to fish : LC 50 (Rainbow trout,donaldson trout (Oncorhynchus  
mykiss)): 1.800 mg/l  
Exposure time: 48 h  
Test Type: static test

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**Persistence and degradability**

**Components:**

MAGNESIUM OXIDE:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

**Bioaccumulative potential**

**Components:**

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**Components:**

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

**INTERNATIONAL MARITIME DANGEROUS GOODS**

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UN	2967	SULPHAMIC ACID	8	III
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	2967	Sulphamic acid	8	III
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	2967	Sulphamic acid	8	III
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**CHINA - ROAD**

UN	2967	SULPHAMIC ACID	8	III
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**CHINA - RAIL**

UN	2967	SULPHAMIC ACID	8	III
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**CHINA - INLAND WATERWAYS**

UN	2967	SULPHAMIC ACID	8	III
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**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**


**Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.**

Singapore. Hazardous Substances Control List :  
 (Environmental Pollution Cont Substances)

Singapore. CWC. Chemical Weapons (Prohibition) Act, : Neither banned nor restricted  
 (Schedule, Parts 1-3) as amended

Singapore. Explosive Precursors (Arms and : Neither banned nor restricted  
 Explosives Act, Second Schedule, 2003 Revision, as  
 amended)

Singapore. Hazardous Substances Transport, Storage : Neither banned nor restricted  
 & Use Permissions (Environmental Protection and  
 Management (Hazardous Substances) Regulations

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**The components of this product are reported in the following inventories:**

TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AUSTR	: On the inventory, or in compliance with the inventory
NZIOC	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECL	: On the inventory, or in compliance with the inventory
PHIL	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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**16. OTHER INFORMATION**

**Further information**

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**Full text of H-Statements referred to under sections 2 and 3.**

H303	May be harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.

**Further information**

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.


Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.


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List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.  
 CN OEL : China. Occupational Exposure Limits  
 HK OEL : Hong Kong. Code of Practice on Control of Air Impurities (Chemical Substances) in the Workplace  
 IN OEL : India. Permissible levels of certain chemical substances in work environment.  
 ID OEL : Indonesia. Occupational Exposure Limits  
 JPJSH OEL : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits  
 JPISHL OEL : Japan. Administrative Control Levels  
 KOR OEL : Korea. Occupational Exposure Limits  
 MY OEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health)  
 NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants  
 PH OEL : Philippines. Threshold Limit Values For Airborne Contaminants  
 SG OEL : Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances  
 TW OEL : Taiwan. Standards on the Concentration Levels of Hazardous Substances in the Air at Workplace

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TH OEL : Thailand. Occupational Exposure Limits  
VN OEL : Vietnam. Occupational Exposure Limits