

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name MS PoultryCare

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance/Mixture**

- Abrasive
- Absorbent
- Cleaning agent
- Surface active agents

**1.3 Details of the supplier of the safety data sheet**

**Company :** Schippers Europe BV  
Rond Deel 12, 5531 AH Bladel, Nederland  
Phone: +31497382017 — Fax: +31497382096  
E-mail: [contact.nl@schippers.eu](mailto:contact.nl@schippers.eu) — Website: <http://www.schippers.eu/>

**1.4 Emergency telephone number :** +44(0)1235 239 670 [CareChem 24]

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (Regulation (EC) No 1272/2008 )**

- Not classified as hazardous product under the regulation above.

**2.2 Label elements****Regulation (EC) No 1272/2008**

- Not labelled as hazardous product under the above regulation.

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

- None known..

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Not applicable, this product is a mixture.

### 3.2 Mixture

- |                 |                           |
|-----------------|---------------------------|
| - Chemical name | Sodium hydrogen carbonate |
| - Synonyms      | Sodium bicarbonate        |
| - Formula       | NaHCO <sub>3</sub>        |

### Information on Components and Impurities

Chemical name	Identification number	Classification Regulation (EC) No 1272/2008	Concentration [%]
Other substances with occupational exposure limits			
sodium hydrogencarbonate	CAS-No. : 144-55-8  EINECS-No. : 205-633-8  Registration number: 01-2119457606-32-xxxx  self classification	Not classified	>= 80 - < 90
silicon dioxide	CAS-No. : 7631-86-9  EINECS-No. : 231-545-4  Registration number: 01-2119379499-16-XXXX  self classification	Not classified	>= 20 - < 25

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### In case of inhalation

- Move to fresh air.
- If symptoms persist, call a physician.

#### In case of skin contact

- Wash off with soap and water.

#### In case of eye contact

- Rinse thoroughly with plenty of water, also under the eyelids.
- If eye irritation persists, consult a specialist.

#### In case of ingestion

- Rinse mouth with water.
- Do NOT induce vomiting.
- If symptoms persist, call a physician or Poison Control Centre immediately.

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

#### In case of inhalation

##### Symptoms

- At high concentrations:
- slight irritation

##### Effects

- No hazards to be specially mentioned.

**In case of skin contact****Effects**

- No hazards to be specially mentioned.
  - Contact with dust can cause mechanical irritation or drying of the skin.
- Repeated or prolonged exposure*

- slight irritation

**In case of eye contact****Effects**

- Dust contact with the eyes can lead to mechanical irritation.

**In case of ingestion****Effects**

- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to physician**

- When symptoms persist or in all cases of doubt seek medical advice.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

- None

**5.2 Special hazards arising from the substance or mixture**

- Not combustible.

**5.3 Advice for firefighters****Special protective equipment for firefighters**

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****Advice for non-emergency personnel**

- Evacuate personnel to safe areas.
- Avoid dust formation.

**Advice for emergency responders**

- Use personal protective equipment.
- Sweep up to prevent slipping hazard.
- Prevent further leakage or spillage.

**6.2 Environmental precautions**

- Do not flush into surface water or sanitary sewer system.
- Prevent any mixture with an acid into the sewer/drain (gas formations).

**6.3 Methods and materials for containment and cleaning up**

- Pick up and transfer to properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Flush with plenty of water.

**6.4 Reference to other sections**

- Refer to protective measures listed in sections 7 and 8.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Ensure adequate ventilation.
- Minimize dust generation and accumulation.
- Avoid contact with skin and eyes.
- Keep away from incompatible products

**Hygiene measures**

- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- Store in original container.
- Keep in a dry place.
- Keep in properly labelled containers.
- Keep container closed.
- Keep away from direct sunlight.
- Do not freeze.
- Protect from frost.
- Keep away from:
- Incompatible products

**Packaging material****Suitable material**

- Paper.
- Polyethylene

**Unsuitable material**

- No data available

**7.3 Specific end use(s)**

- Contact your supplier for additional information

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
silicon dioxide	TWA	6 mg/m <sup>3</sup>	UK. EH40 WEL - Workplace Exposure Limits

	Form of exposure : Inhalable		
	TWA	2.4 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : Respirable		
	TWA	6 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : inhalable dust		
	TWA	2.4 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : Respirable dust		
	TWA	6 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : inhalable dust Expressed as :Silica		
	TWA	6 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : inhalable dust Expressed as :Silica		
	TWA	2.4 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : Respirable dust Expressed as :Silica		
	TWA	2.4 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	Form of exposure : Respirable dust Expressed as :Silica		

**Derived No Effect Level (DNEL) / Derived minimal effect level (DMEL)**

Product name	Population	Route of exposure	Potential health effects	Exposure time	Value	Remarks
silicon dioxide	Workers	Inhalation	Systemic effects	Long term	4 mg/m3	

## 8.2 Exposure controls

### Control measures

## Engineering measures

- Provide appropriate exhaust ventilation at places where dust is formed.
- Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures

### Respiratory protection

- Use only respiratory protection that conforms to international/ national standards.
- Respirator with a particle filter (EN 143)
- Recommended Filter type: P2 filter

### Hand protection

- Wear suitable gloves.

## Eye protection

- Safety goggles

### Skin and body protection

- No special protective equipment required.

## Hygiene measures

- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

## Environmental exposure controls

- Dispose of rinse water in accordance with local and national regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	<u>Form:</u> crystalline, powder <u>Physical state:</u> solid <u>Colour:</u> white <u>Particle size:</u> <= 10 µm , Silicon dioxide >= 40 µm , Sodium bicarbonate
<u>Odour</u>	odourless
<u>Odour Threshold</u>	No data available
<u>pH</u>	8.4 (ca. 8.4 g/l) ( 25 °C) (as aqueous solution), Sodium bicarbonate 8.6 (ca. 52 g/l) (as aqueous solution), Sodium bicarbonate  <u>pKa:</u> 6.3
<u>Melting point/freezing point</u>	<u>Melting point/range:</u> <u>Decomposition:</u> yes
<u>Initial boiling point and boiling range</u>	<u>Boiling point/boiling range:</u> <u>Thermal decomposition:</u> yes
<u>Flash point</u>	Not applicable, inorganic

<u>Evaporation rate (Butylacetate = 1)</u>	No data available
<u>Flammability (solid, gas)</u>	The product is not flammable.
<u>Flammability/Explosive limit</u>	<u>Explosiveness:</u> Not expected
<u>Auto-ignition temperature</u>	Not applicable
<u>Vapour pressure</u>	Thermal decomposition
<u>Vapour density</u>	Not applicable
<u>Density</u>	<u>Bulk density:</u> 0.5 - 1.3 kg/dm <sup>3</sup> Sodium bicarbonate
<u>Relative density</u>	No data available
<u>Solubility</u>	<u>Water solubility:</u> 69 g/l ( 0 °C)Sodium bicarbonate  93 g/l ( 20 °C)Sodium bicarbonate  165 g/l ( 60 °C)Sodium bicarbonate  <u>Solubility in other solvents:</u> Alcohol : insoluble Sodium bicarbonate
<u>Partition coefficient: n-octanol/water</u>	Not applicable
<u>Decomposition temperature</u>	> 50 °C
<u>Viscosity</u>	<u>Viscosity, dynamic :</u> Not applicable
<u>Explosive properties</u> <u>Oxidizing properties</u>	No data available Not expected

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

- Incompatible with acids.
- Decomposes slowly on exposure to water.

**10.2 Chemical stability**

- Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

- none

**10.4 Conditions to avoid**



- Exposure to moisture
- To avoid thermal decomposition, do not overheat.

#### 10.5 Incompatible materials

- Acids

#### 10.6 Hazardous decomposition products

- Carbon dioxide (CO<sub>2</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### **Acute oral toxicity**

sodium hydrogencarbonate

LD50 : > 4,000 mg/kg - Rat , male and female  
Method: according to a standardised method  
The product has a low acute toxicity  
Unpublished reports

silicon dioxide

LD50 : > 5,000 mg/kg - Rat , for males and females  
Method: OECD Test Guideline 401  
Unpublished reports

##### **Acute inhalation toxicity**

sodium hydrogencarbonate

LC50 - 4.5 h ( Dust ) : > 4.74 mg/l - Rat , male and female  
Method: according to a standardised method  
Not classified as hazardous for acute inhalation toxicity according to GHS.  
Unpublished reports

silicon dioxide

Risk of physical blockage of the upper respiratory tract

LC50 - 4 h ( dust/mist ) : > 2.08 mg/l - Rat , male and female  
Method: OECD Test Guideline 403  
Unpublished reports

##### **Acute dermal toxicity**

sodium hydrogencarbonate

No data available

silicon dioxide

LD50 : > 5,000 mg/kg - Rabbit  
Unpublished reports

##### **Acute toxicity (other routes of administration)**

No data available

##### Skin corrosion/irritation

Rat  
No skin irritation

##### Serious eye damage/eye irritation

Rat  
No eye irritation

##### Respiratory or skin sensitisation

silicon dioxide

Humans  
no cutaneous sensitisation reaction observed  
Published data



**Mutagenicity****Genotoxicity in vitro**

sodium hydrogencarbonate

Strain: Escherichia coli  
with and without metabolic activation

negative

Method: according to a standardised method

Published data

Ames test

with metabolic activation

negative

Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Published data

silicon dioxide

Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
with and without metabolic activation

negative

Unpublished reports

Gene mutation assays in mammalian cells.

Strain: CHO

with and without metabolic activation

negative

Unpublished reports

Mutagenicity (in vitro mammalian cytogenetic test)

Strain: CHO

with and without metabolic activation

negative

Unpublished reports

**Genotoxicity in vivo**

No data available

**Carcinogenicity**

silicon dioxide

Rat , for males and females

Oral studies did not reveal any carcinogenic potential

Unpublished reports

Mouse , for males and females

Oral studies did not reveal any carcinogenic potential

Unpublished reports

**Toxicity for reproduction and development****Toxicity to reproduction/Fertility**

silicon dioxide

Fertility study 1 generation - Rat for males and females

Oral

General Toxicity F1 NOAEL: 497 mg/kg

Fertility NOAEL Parent: 497 mg/kg

OECD Test Guideline 415

in food, no impairment of fertility has been observed, No effect observed on development, Unpublished reports

**Developmental Toxicity/Teratogenicity**

**sodium hydrogencarbonate**

Rat, female, Oral  
 Teratogenicity NOAEL:> 340mg/kg  
 Method: according to a standardised method  
 Highest dose tested, The product is not considered to be embryotoxic/foetotoxic.,  
 Unpublished reports

Rabbit, female, Oral  
 Teratogenicity NOAEL:> 330mg/kg  
 Method: according to a standardised method  
 Highest dose tested, The product is not considered to be embryotoxic/foetotoxic.,  
 Unpublished reports

**silicon dioxide**

Mouse  
 General Toxicity Maternal NOAEL: 1,340 mg/kg  
 Teratogenicity NOAEL:1,340mg/kg  
 Method: OECD Test Guideline 414  
 Gavage

Rat  
 General Toxicity Maternal NOAEL: 1,350 mg/kg  
 Teratogenicity NOAEL:1,350mg/kg

Rabbit  
 General Toxicity Maternal NOAEL: 1,600 mg/kg  
 Teratogenicity NOAEL:1,600mg/kg

Hamster  
 General Toxicity Maternal NOAEL: 1,600 mg/kg  
 Teratogenicity NOAEL:1,600mg/kg

Unpublished reports, No toxicity to reproduction

**STOT****STOT - single exposure****sodium hydrogencarbonate**

Exposure routes: Oral, Inhalation  
 The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.  
 internal evaluation

**silicon dioxide**

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

**STOT - repeated exposure****silicon dioxide**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

**silicon dioxide**

If inhaled No irreversible effect or symptom of silicosis was observed during the inhalation toxicity tests.  
 Unpublished reports

Oral exposure No irreversible effects were observed during chronic oral toxicity tests.  
 Unpublished reports

If inhaled 13 Weeks - Rat , for males and females  
 NOAEC: 0.0013 mg/l  
 Unpublished reports

If inhaled 13 Weeks - Rat , for males and females  
 LOAEC: 0.0059 mg/l

## Unpublished reports

If inhaled 13 Weeks - Rat , for males and females  
 : < 0.0013 mg/l  
 Unpublished reports

Experience with human exposure

No data available

Aspiration toxicity

No data available

**SECTION 12: Ecological information****12.1 Toxicity**Aquatic Compartment**Acute toxicity to fish**

sodium hydrogencarbonate

LC50 - 96 h : 7,100 mg/l - *Lepomis macrochirus* (Bluegill sunfish)  
 flow-through test  
 Analytical monitoring: yes

Method: according to a standardised method  
 Unpublished internal reports  
 Not harmful to fish (LC/LL50 > 100 mg/L)

silicon dioxide

LC50 - 96 h : > 10,000 mg/l - *Danio rerio* (zebra fish)  
 Unpublished reports

**Acute toxicity to daphnia and other aquatic invertebrates**

sodium hydrogencarbonate

EC50 - 48 h : 4,100 mg/l - *Daphnia magna* (Water flea)  
 flow-through test  
 Analytical monitoring: yes  
 Method: according to a standardised method  
 Unpublished internal reports  
 Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

silicon dioxide

EC50 - 24 h : > 1,000 mg/l - *Daphnia magna* (Water flea)  
 Unpublished reports

**Toxicity to aquatic plants**

silicon dioxide

EC50 - 72 h : > 10,000 mg/l - *Desmodesmus subspicatus* (green algae)  
 By analogy  
 Unpublished reports

NOEC - 72 h : > 10,000 mg/l - *Desmodesmus subspicatus* (green algae)  
 By analogy  
 Unpublished reports

**Toxicity to microorganisms**

No data available

**Chronic toxicity to fish**

No data available

**Chronic toxicity to daphnia and other aquatic invertebrates**

sodium hydrogencarbonate	NOEC: > 576 mg/l - 21 Days - Daphnia magna (Water flea) semi-static test Analytical monitoring: no Method: OECD Test Guideline 211 Highest concentration tested Published data No adverse chronic effect observed up to and including the threshold of 1 mg/L.
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**12.2 Persistence and degradability****Abiotic degradation****Stability in water**

sodium hydrogencarbonate	Product dissociates rapidly to corresponding ions on contact with water.,
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**Physical- and photo-chemical elimination**

No data available

**Biodegradation****Biodegradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential****Partition coefficient: n-octanol/water**

sodium hydrogencarbonate	Not applicable (inorganic substance)
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**Bioconcentration factor (BCF)**

sodium hydrogencarbonate	According to the available data on the constituents Not potentially bioaccumulable Expert judgement
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silicon dioxide

Not applicable  
 internal evaluation

**12.4 Mobility in soil****Adsorption potential (Koc)**

sodium hydrogencarbonate	According to the available data on the constituents non-significant adsorption internal evaluation
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**Known distribution to environmental compartments**

silicon dioxide	Ultimate destination of the product : Soil  Sediment
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**12.5 Results of PBT and vPvB assessment**

sodium hydrogencarbonate	Not applicable (inorganic substance)
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## 12.6 Other adverse effects

### Ecotoxicity assessment

**Acute aquatic toxicity**  
sodium hydrogencarbonate

Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

silicon dioxide

The product does not have any known adverse effects on the aquatic organisms tested

**Chronic aquatic toxicity**  
sodium hydrogencarbonate

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product Disposal

- Contact waste disposal services.
- If recycling is not practicable, dispose of in compliance with local regulations.
- Dilute with plenty of water.
- Neutralise with acid.
- In accordance with local and national regulations.

#### Advice on cleaning and disposal of packaging

- Where possible recycling is preferred to disposal or incineration.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

## SECTION 14: Transport information

### ADR

not regulated

### RID

not regulated

### IMDG

not regulated

### IATA

not regulated

### ADN/ADNR

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## SECTION 15: Regulatory information

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

#### Other regulations

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended
- 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, as amended
- Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

#### Notification status

Inventory Information	Status
United States TSCA Inventory	- Listed on Inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- In compliance with the inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Mexico INSQ (INSQ)	- Listed on Inventory
Mexico INSQ (INSQ)	- Listed on Inventory
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a European Solvay legal entity, this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, pre-registered and/or registered. When purchased from a legal entity outside of Europe, please contact your local representative for additional information.

#### 15.2 Chemical safety assessment

- not required

#### **SECTION 16: Other information**

##### Key or legend to abbreviations and acronyms used in the safety data sheet

- TWA Long-term exposure limit (8-hour TWA reference period)

##### Further information

- Update
- See section 1
- See section 8
- Distribute new edition to clients



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.