1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Identification of the substance or mixture

Product Name	FARM GENERAL SPRAY TANK CLEANER
Chemical Name	Sodium Carbonate
Synonyms	Dense Sodium Carbonate/Soda Ash
Molecular formula	Na_2CO_3

1.2. Use of the Substance/Mixture

Recommended Use	Chemical Spray Tank Flush

1.3. Company/Undertaking Identification

Distributed by	Ragan & Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, Louisiana 70454 United States

1.4. Emergency and contact telephone numbers

Emergency telephone number	**1 (800) 434-9300**	**CHEMTREC®**
Contact telephone number	**1 (800) 264-5281** **1 (985) 386-6042**	**(Product Information)** **(Product Information)**

2. HAZARDS IDENTIFICATION

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1. Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Eye irritation	Category 2A	H319: Causes Serious eye irritation.

2.2. Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram

Signal Word

- Warning

Hazard Statements

- H319	Causes serious eye irritation.

Precautionary Statements

Prevention

- P264 Wash skin thoroughly after handling.
- P280 Wear eye protection/face protection.

Response

- P305 + P351 + P338 IF IN ETES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.

Additional Labeling

- The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 1%

2.3. Other hazards which do not result in classification

None identified

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

Hazardous Ingredients and Impurities

Chemical Name	Identification Number CAS-No.	Concentration
Carbonic acid sodium salt (1:2)	497-19-8	≥ 99%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

3.2. Mixture

Not applicable. This product is a substance.

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.
- If symptoms persist, call a physician.

In case of eye contact

- In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- 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 Center immediately.

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

In case of inhalation

Symptoms
- At high concentration: Cough

Effects
- May cause nose, throat, and lung irritation

Repeated or prolonged exposure
- Risk of sore throat, nose bleeds

In case of skin contact

Effects
- Prolonged skin contact may cause skin irritation

In case of eye contact

Symptoms
- Redness
- Lachrymation
- Swelling of tissue

Effects
- Severe eye irritation

In case of ingestion

Symptoms
- Severe irritation
- Nausea
- Abdominal pain
- Vomiting
- Diarrhea

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

Notes to physician

- None

5. FIRE FIGHTING MEASURES

Flash Point	Not applicable
Autoignition temperature	Not applicable
Flammability/Explosive limit	Not applicable

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

Specific hazards during firefighting

- Not combustible

Hazardous combustion products

- None

5.3. Advice for firefighters

Special protective equipment for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

Advice for non-emergency personnel

- Avoid dust formation.

Advice for emergency responders

- Sweep up to prevent slipping hazard.

6.2. Environmental precautions

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- Prevent any mixture with an acid into the sewer/drain (gas formations).
- Local authorities ahould be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

- Sweep up and shovel into suitable containers for disposal.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

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

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

- Eye wash bottles or eye wash stations in compliance with applicable standards.
- When using do not eat, drink, or smoke.
- Wash hands before breaks and at the end of the workday.

- Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, incuding any incompatabilities

Technical measures/storage conditions

- Store in original container.
- Keep in a dry place.
- Keep in properly labeled containers.
- Keep container closed.
- Keep away from incompatible products.

Packaging Material

Suitable Material
- Polyethylene
- Woven plastic material

Unsuitable Material
- Material moisture permeable

7.3. Specific end uses

- This grade of product is not intended for pharmaceutical, feed or food applications.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protectin equipment is generally available from equipment manufacturers.

8.1. Control parameters

Components with workplace occuptional exposure limits

Ingredients	Value type	Value	Basis
Carbonic acid sodium salt (1:2)	TWA	10 mg/m^3	Acceptable Exposure Limit

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
- Effective dust mask.
- Use only respiratory protection that conforms to international/national standards.
- Use NIOSH approved respiratory protection.

Hand protection
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Wear suitable gloves.

Suitable material:

- Neoprene
- Natural Rubber

Eye protection

- Safety goggles

Skin and body protection

- Dust impervious protective suit
- Rubber or plastic boots
- Rubber or plastic apron

Hygiene measures

- Eye wash bottles or eye wash stations in compliance with applicable standards.
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1. Information on basic physical and chemical properties

Appearance	Form: powder Physical state: solid Color: white
Particle size	> 125µm (85–90%)
Odor	odorless
Odor threshold	No data available
pH	11.2 (4g/l) (77°F (25°C)) 11.3 (10 g/l) (77°F (25°C)) pKa: 6.4 10.3
Melting pont/range	1564°F (851°C)
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation Rate (Butylacetate=1)	Not applicable
Flammability (solid, gas)	Not applicable
Flammability/Explosive limit	Explosiveness Not applicable
Autoignition temperature	Not applicable
Vapor Pressure	Negligible
Vapor Density	Not applicable
Density	Bulk Density: 0.97–1.10 kg/dm^3 Method: Free flow

	Relative density: 2.53 (68°F (20°C))
Solubility	Water solubility: 71 g/l (32°F (0°C)) 212.5 g/l (68°F (20°C))
Partition coeffiecient: n-octanol / water	Not applicable
Thermal decomposition	> 753°F (> 400°C)
Viscosity	Dynamic: Not applicable
Explosive properties	Not applicable
Evaporation rate	No data available
Oxidizing properties	Not considered as oxidizing

9.2. Other information

Molecular weight	106 g/mol

10. STABILITY AND REACTIVITY

10.1. Reactivity

- Decomposes by reaction with strong acids.

10.2. Chemical stability

- Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

- No data available

10.4. Conditions to avoid

- Exposure to moisture

10.5. Incompatible materials

- Finely divided aluminum

10.6. Hazardous decomposition products

- None

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Acute oral toxocity	LD50: 2,800 mg/kg Rat, male and female This produce has low acute toxicity Unpublished reports
Acute inhalation toxicity	No data available
Acute dermal toxicity	LD50: > 2,000 mg/kg

Rabbit
Method: according to a standardized method
Not classified as hazardous for acute dermal toxicity according to GHS.
No mortality observed at this concentration.
Unpublished reports

Acute toxicity (other routes of administration) No data available

Skin corrosion/irritation

Rabbit
Not classified as irritating to skin
Method: OECD Test Guideline 404
Unpublished reports

Serious eye damage/eye irritation

Rabbit
Irritating to eyes.
Method: according to a standardized method
Unpublished reports

Respiratory or skin sensitization

No data available

Mutagenicity

Genotoxicity in vitro By analogy

Ames test with metabolic activation
Product is not considered to be genotoxic
Published data

Strain: Escherichia coli without metabolic activation

negative
Product is not considered to be genotoxic
Published data

Genotoxicity in vivo No data available

Carcinogenicity No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:
NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

Toxicity to reproduction/fertility No data available

Developmental Toxicity/Teratogenicity

Mouse, female
Application route: Oral
NOAEL teratogenicity: ≥ 580 mg/kg
NOAEL maternal: ≥ 580 mg/kg
Method: according to a standardized method no embryotoxic or teratogenic effects

have been observed.
Unpublished reports

STOT

STOT-single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.
Internal evaluation

STOT-repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Internal evaluation

Aspiration toxicity No data available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic Compartment

Acute toxocity to fish LC50 - 96 h: 300 mg/l - Lepomis macrochirus (Bluegill sunfish)
static test
Analytical monitoring: no

Method: according to standardized method
Not harmful to fish (LC50 > 100 mg/L)
Published data

Acute toxocity to daphnia and other aquatic invertebrates

EC50 - 48 h: 200 - 227 mg/l - Ceriodaphnia dubia (water flea)
semi-static test
Method: according to a standardized method
Not harmful to aquatic invertebrates (EC50 > 100 mg/L)
Published data

12.2. Persistence and degradability

Abiotic degradation

Photodegradation hydrolyzes
Test substance: Water
carbonic acid/bicarbonate/carbonate
acid/base equilibrium as a function of pH

Biodegradation

Biodegradability Not applicable, inorganic substance

Degradability assesment

The product is not considered to be rapidly degradable in the environment.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) Not applicable, inorganic substance

12.4. Mobility in soil

Absorption potential (Koc) Air
Not applicable

Solubility(ies)
Water

Mobility
Water

Soil/sediments
not significant

12.5. Results of PBT and vPvB assessment

Not applicable, inorganic substance

12.6. Other adverse effects

No data available

Ecotoxicity assessment

Acute aquatic toxicity Not harmful to aquatic life (LC/EC50 > 100 mg/L)

Chronic aquatic toxicity Not classified due to data which are conclusive although insufficient for classification.

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.
- Neutralize with acid.
- In accordance with local and national regulations.

Waste Code

- RCRA Hazardous Waste (40 CFR 302)
- Hazardous Waste - NO

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.

14. TRANSPORT INFORMATION

DOT

- not regulated

TDG

- not regulated

NOM

- not regulated

IMDG

- not regulated

IATA

- not regulated

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

15. REGULATORY INFORMATION

15.1. Notification Status

Inventory Information	Status
United States TSCA Inventory	One or more components not listed on inventory
Mexico INSQ (INSQ)	In compliance with inventory
Canadian Domestic Substances List (DSL)	One or more components not listed on inventory
New Zealand Inventory of Chemical Substances	One or more components not listed on inventory
Australia Inventory of Chemical Substances (AICS)	One or more components not listed on inventory
Japan CSCL Inventory of Existing and New Chemical Substances	One or more components not listed on inventory
Korean Existing Chemicals Inventory (KECI)	One or more components not listed on inventory
Incentory of Existing Chemcial Substances in China (IECSC)	One or more components not listed on inventory
Phillipines Inventory of Chemicals and Chemical Substances (PICCS)	One or more components not listed on inventory

15.2. Federal Regulations

US EPA EPCRA SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65)
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)
This material does not contain any components with a SARA 302 RQ.

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)
This material does not contain any components with a section 304 EHS RQ.

US EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302,4)
This material does not contain any components with a CERCLA RQ.

15.3. State Regulations

US California Safe Drinking Water & Toxic Enforcement Act (Proposistion 65)

This material does not contain any chemicals known to the state of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

NFPA (National Fire Preotection Association)

Health = 2	Flammability = 0	Instability = 0	Special = None

HMIS (Hazardous Material Information System)

Health = 2	Fire = 0	Reactivity = 0	PPE: Determined by User; dependent on local conditions

Further information

Product evaulated under the US GHS format.

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