# S A SOUTHERN 5 0 AG®

# SA-20 Disinfectant SAFETY DATA SHEET

# **1. IDENTIFICATION**

Product Name:	SA-20 Disinfectant
EPA Reg. No.:	10324-94-829
Company:	Southern Agricultural Insecticides, Inc
	P.O. Box 218
	Palmetto, FL 34220
	(941) 722-3285
	National Pesticide Information Center: (800) 858-7378
	Chemtrec (800) 424-9300 (24 hour transportation spill response)
Synonyms:	Quaternary ammonium compounds
	Dimethyl amine salt of 2,4-dichlorophenoxy acetic acid

**Recommended Use:** Deodorizer, Fungicide, Mildewstat, Greehouse Disinfectant. This product is intended to be delluted prior to use. For further information refer to the EPA Registered product label. Uses other than those identified are not recommended.

## 2. HAZARD(S) IDENTIFICATION

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 2.1 Emergency overview

Emergency overview	
Appearance:	Clear solution with characteristic odor
Precautionary statements:	Causes severe skin burns and serious eye damage Harmful if swallowed.

#### GHS Classification Health

Serious eye damage/eye irritation	n Category 1
Skin corrosion/irritation	Category 1B
Acute toxicity (oral)	Category 4
Acute toxicity (dermal	Category 4

#### Product at Use-Dilution

Serious eye damage/eye irritation Category 2B

#### GHS label elements, including precautionary statements

Hazard Pictograms/symbols:



Signal Word: Danger

Hazard Statement:

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage

#### Precautionary Statements **Prevention**

P262: Do not get in eyes, on skin, or on clothing

P264: Wash affected areas thoroughly after handling

- P270: Do not eat, drink or smoke when using this product
- $\ensuremath{\mathsf{P280}}\xspace$  : Wear protective gloves and eye, face and foot protection

#### Response

P301+312+330+331: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician

P363: Wash contaminated clothing before reuse

#### Storage

P233: Keep container tightly closed

P234: Keep only in original container

P501: Dispose of contents and container to an approved waste disposal plant

#### **Product at Use-Dilution**

Hazard pictograms/symbols Signal Word:	None Warning
Hazard Statements:	H320: Causes eye irritation
Precautionary Statements:	Prevention
· · · · · · · · · · · · · · · · · · ·	P264: Wash affected areas thoroughly after handling
	Response
	P305+P351+P338+P337+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention

2.3 Other hazards No information available

# 3. Composition/information on ingredients

### 3.1 Information on components and impurities

Chemical name	CAS number(s)	GHS Classification	Concentration
Alkyl (C <sub>12-18</sub> ) dimethylbenzyl ammonium chloride Category	68391-01-5	Serious eye damage/eye irritation: Category 1, Skin corrosion/irritation: 1B, Acute toxicity (oral):	>=20.0-<=21.
Alkyl (C <sub>12-14</sub> ) dimethylethy- lbenzvl ammonium chloride	85409-23-0	Category 3, Acute toxicity (dermal): Category 3; H301, H314, H318	
Other components		Not classified	Balance

### Product at Use-Dilution

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### 4. First aid measures

#### 4.1 Description of first-aid measures

General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

- Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.
   Skin contact: Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek
- Skin contact: Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.
- Ingestion: Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.

If inhaled: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing be comes difficult Wash thoroughly after handling.

#### Product at Use-Dilution

Eye contact:Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.<br/>Continue rinsing. Get medical attention if irritation persists.Skin contact:No known effect after skin contact. Rinse with water for a few minutes.<br/>Get medical attention if symptoms occurIngestion:Get medical attention if symptoms occurIf inhaled:No special measures required. Treat symptomatically.

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

Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

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

Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

Flash Point and Method:	None	
5.1 Extinguishing media		
Suitable extinguishing media:	The product is not flammable	
	Use media suitable for the material that is burning.	
	Unsuitable extinguishing media: No data available	
5.2 Special hazards arising from the substance or mixture		
Special hazards during fire fighting:	Container may rupture on heating.	
On combustion or on thermal decomposition:	May include carbon oxides, nitrogen oxides	
5.3 Advice for firefighters		
Special protective equipment for firefighters:	As in any fire, wear NIOSH/MSHA approved, pressure-demand self- contained breathing apparatus and full protective gear.	
Specific firefighting methods:	No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.	

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

#### 6.2 Environmental precautions

Avoid contact of spilled material and runoff with soil and surface waterways

### 6.3 Methods and material for containment and cleaning up

Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.

Decontamination/

cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.

Disposal: Dispose of in accordance with local regulations

#### Additional advice: Spill area may be slippery

Product as Use-Dilution Use a water rinse for final clean-up

#### 6.4 Reference to other sections

No information available

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling Does not require any specific or particular measures Technical measures: Wear appropriate protective equipment including long chemical resistant Advice on safe handling and usage: gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Do not spray toward face. Wash affected areas after use. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY. **Product at Use-Dilution** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. 7.2 Conditions for safe storage, including any incompatibilities Technical measures for storage: Does not require any specific or particular measures Storage class (TRGS 510): Non-combustible, corrosive materials Storage conditions **Recommended:** Keep container tightly closed. Opened containers must be carefully re sealed and kept upright to prevent leakage. Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials" Product at Use-Dilution Keep out of reach of children. Keep container tightly closed. 7.3 Specific end use(s)

No information available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Introductory remarks:

These 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. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should he handled in accordance with Section 13: Disposal considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

8.1	<b>Control parameters</b> Components with workplace control parameters Not reportable		
8.2	8.2 Exposure controls Control measures		
	Engineering measures:	<b>G</b> ood general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.	
Personal protective equipment			
	Respiratory protection:	In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.	
Hand protection: Wear long chemical resis permeability and breakth gloves. Also take into co which the product is used contact time. Gloves sho		Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.	
	Eye protection:	Wear chemical splash goggles.	

Skin and body protection:	Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.
Hygiene measures:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
	<ol> <li>Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.</li> </ol>
	<ol> <li>Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.</li> </ol>
	3) Wash exposed skin promptly to remove accidental splashes or contact with material.
Protective measures:	Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.
	The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.
	Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
Product at Use-Dilution	
Respiratory protection: Hand protection:	A respirator is not needed under normal and intended conditions of product use No protective equipment is needed under normal use conditions
Eye protection: Skin and body protection:	No protective equipment is needed under normal use conditions No protective equipment is needed under normal use conditions
Hygiene measures:	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
	<ol> <li>Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored</li> </ol>
	<ol> <li>Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet</li> </ol>
	3) Wash exposed skin promptly to remove accidental splashes or contact with product

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact Mason Chemical Company for additional information.

Appearance:	Clear solution
Odor:	Characteristic odor
Odor Threshold:	No information available
pH:	6.5-8.5
Freezing point:	No information available
Melting point/range:	No information available
Boiling point/boiling range:	>100°C
Flash point:	Does not flash
Evaporation rate:	No information available
Flammability (solid, gas):	Not applicable
Flammability/Explosive limit:	No information available
Auto-ignition temperature:	No information available
Vapor pressure:	No information available
Vapor density:	No information available

Density: Solubility: Solubility in other solvents: Partition coefficient: n-octanol/water: Thermal decomposition: Viscosity: Explosive properties: Oxidizing properties: Solubility in water: Evaporation rate: Other Information:	0.99 g/ml, 8.2 lbs/gal (25°C) Water solubility: soluble No information available No information available Low viscosity No information available No information available not information available fully soluble not applicable If necessary, information on other physical and chemical parameters is indicated in this section.
Product at Use-Dilution	

	FIGUULI al USE-DIIULION	
	Appearance:	Clear solution
	Odor:	Characteristic odor
	pH:	5-8 Flash point: Does not flash
9.2	Other information	
	No information available	

#### **10. STABILITY AND REACTIVITY**

10.1	Reactivity	
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No information available

10.2	Chemical stability
	Stable and non-reactive under normal conditions of use, storage and transport

- **10.3 Possibility of hazardous reactions** No information available
- 10.4 Conditions to avoid

No information available

- **10.5** Incompatible materials Anionic surfactants
- 10.6 Hazardous decomposition products Oxides of carbon and nitrogen

#### **11. TOXICOLOGICAL INFORMATION**

#### **Product Summary:**

Causes severe skin burns and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

#### Information on likely routes of exposure:

Eye contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Skin contact	Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
Ingestion	Harmful is swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Sensitization	No known effects

# Product at Use-dilution

**Product Summary:** Causes eye irritation. No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

#### Information on likely routes of exposure:

Eye contactCauses eye irritation. Symptoms may include irritation, watering, rednessSkin contactNo known significant effects or critical hazards Ingestion No known significant effects or critical hazardsInhalationNo known significant effects or critical hazardsSensitizationNo known effects

#### **11.1** Information on toxicological effects

	Acute toxicity	
	Acute oral:	LD50 507 mg/kg
	Acute dermal:	LD50 >2,000 mg/kg
	Acute inhalation:	No information available
	Acute toxicity (other):	No information available
	Skin corrosion/irritation	
	Skin irritation:	Corrosive. Causes severe burns
	Serious eye damage/eye irritation	
	Eye irritation:	Corrosive. Causes serious eye damage
	Respiratory or skin sensitization	
	Sensitization:	Not classified as sensitizing by skin contact
Produc	ct at Use-dilution	
	Acute toxicity	
	Acute oral:	LD50 >5000 mg/kg
	Acute dermal:	LD50 >2000 mg/kg
	Acute inhalation:	No information available
	Acute toxicity (other):	No information available
	Skin corrosion/irritation	
	Skin irritation:	No known significant effects or critical hazards
	Serious eye damage/eye irritation	
	Eye irritation:	Causes eye irritation
	Respiratory or skin sensitization	
	Sensitization:	Not classified as sensitizing by skin contact
	Mutagenicity	
	Genotoxicity in vitro:	No information available
	Genotoxicity in vivo:	No information available
	Carcinogenicity	
	Carcinogenicity:	This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH
	Toxicity for reproduction and development	
	Toxicity to reproduction/fertility:	
	Developmental toxicity/teratogenicity:	No information available
	Specific Target Organ Toxicity (STOT	
	STOT-single exposure:	No information available
	STOT-repeated exposure:	No information available
	Aspiration toxicity	
	Aspiration toxicity:	No information available
	Other Hazards	
	No information available.	

#### **12. ECOLOGICAL INFORMATION**

12.1	Toxicity

	Aquatic toxicity:	Toxic to aquatic life
12.2	Persistence and degradability	
	Biodegradation:	No information available

12.3	Bioaccumulative potential Partition coefficient: n-octano Bioconcentration factor (BCF)	l/water: No bioaccumulation is to be expected (log Pow<=4) ): No information available
12.4	Mobility in soil Known distribution to environmental compartments:	No information available
12.5	Results of PBT and vPvB assessment	t
12.6	Other adverse effects	No information available
	Environmental assessment:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endo- crine disruption, global warming potential) are expected from this product.
13. DIS	POSAL CONSIDERATIONS	
13.1	Waste treatment methods PESTICIDE DISPOSAL:	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental control agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
	Product disposal: Packaging:	Observe all applicable federal, state, and local regulations Remove all residue when emptying
Produ	ct at Use-Dilution	Remove an residue when emptying
	Waste treatment methods PESTICIDE DISPOSAL:	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental control agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
	Product disposal: Packaging:	Diluted product can be flushed to sanitary sewer Discard empty container in trash or offer for recycling
14. TR	ANSPORT INFORMATION	
	DOT Hazard Classification: UN proper shipping name:	UN number: 1903 DISINFECTANTS, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM COMPOUND)
	Transport hazard class(es): Packing group (if applicable):	8 III
	<b>Sea transport</b> IMDG	
	Hazard class:	8
	Packing group: ID number:	III UN 3267
	Hazard label:	8
	Marine pollutant: Proper shipping name:	NO CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains QUATERNARY AMMONIUM COMPOUNDS)

<u>Further information</u> DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

#### **15. REGULATORY INFORMATION**

#### **Federal Regulations**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Notification status: Not applicable OSHA Hazard Communication Standard (26 CFR 1910.1200): Hazardous

CERCLA (RQ)Not listedSARA/EPCRA Extremely Hazardous Substances (302/304)Not listedSARA Hazard Categories (311/312)Not listedSARA Toxic Substances (313)Not listedCAA (311) Volatile Organic compoundsNot listed

#### 15.2 Other regulations

No information available

#### Labeling requirements under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

DANGER: CORROSIVE. KEEP OUT OF REACH OF CHILDREN. KEEP OUT OF REACH OF DOMESTIC ANIMALS. CAUSES IRREVERSIBLE EYE DAMAGE. CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling.

#### **16. OTHER INFORMATION**

#### **NFPA-Classification**

Health	3 high
Flammability	0 insignificant
Flammability	0 insignificant

### Product at Use-Dilution

NFPA-Classification	
Health	1 slight
Flammability	0 insignificant
Instability or Reactivity	0 insignificant

#### **Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.