

## 1. Identification of the Substance / Preparation and of the Company / Undertaking

**Product Name:** Crop Choice 5-20-10-1S  
**Recommended Use** Industrial, Manufacturing or Laboratory use.  
**Restrictions on use** None known  
**Manufacturer**  
 SOIL SERVICE, INC.  
 2576 N County Road 1600 E.  
 Niota, IL 62358  
 1-888-313-2360  
**Emergency Telephone:**  
 CHEMTREC (US): 1-800-424-9300

## 2. Hazards Identification

### GHS - Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements



**Signal Word:** Warning

### Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May cause respiratory irritation. May cause drowsiness or dizziness

### Precautionary Statements:

- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Wear protective gloves and eye/face protection
- 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 advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor if you feel unwell
- Store in a well-ventilated place. Keep container tightly closed
- Store locked up
- Dispose of contents/ container to an approved waste disposal plant

## 3. Composition / Information on Ingredients

Chemical name	CAS No.	Weight-%
Trade Secret	-	0 - 10%
Proprietary	-	50 - 60%
Trade Secret	-	0 - 10%
Trade Secret	-	0 - 10%
Trade Secret	-	0 - 10%
Trade Secret	-	20 - 30%
Trade Secret	-	0 - 10%

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

#### 4. First Aid Measures

##### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms</b>	Burning sensation. Redness. May cause redness and tearing of the eyes.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Note to physicians</b>	Treat symptomatically.

#### 5. Fire-fighting Measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental Release Measures

##### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>Methods and material for containment and cleaning up</b>	
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Dike far ahead of liquid spill for later disposal. Prevent product from entering drains. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

#### 7. Handling and Storage

##### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.  
**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

## 8. Exposure Controls / Personal Protection

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.  
**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.  
**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

## 9. Physical and Chemical Properties

**9.1. Information on basic physical and chemical properties**

<b>Physical State:</b>	Liquid	<b>Odor:</b>	No information available
<b>Appearance:</b>	No information available	<b>Odor Threshold:</b>	No information available
<b>Color:</b>	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH:</b>	6.6	
<b>"Salt Out" Point (°F):</b>		No information available
<b>Melting Point/Freezing Point:</b>		
<b>Boiling Point/Boiling Range:</b>		
<b>Flash Point:</b>		No information available
<b>Evaporation Rate (BuAc=1):</b>		No information available
<b>Flammability (solid, gas):</b>		No information available
<b>Flammability Limits in Air:</b>		No information available
<b>Upper Flammability Limit:</b>		<b>Lower Flammability Limit:</b>
<b>Vapor Pressure (mm Hg) :</b>		No information available
<b>Vapor density (Air =1)</b>		No information available
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.34	
<b>Specific Gravity (2nd value):</b>		
<b>Water Solubility:</b>		No information available
<b>Solubility(ies):</b>		No information available
<b>Partition Coefficient (n-octanol/water)</b>		No information available
<b>Autoignition Temperature:</b>		
<b>Decomposition Temperature:</b>		No information available
<b>Kinematic Viscosity:</b>		No information available
<b>Dynamic Viscosity:</b>		No information available
<b>Oxidizing Properties:</b>	No information available	

**Explosive Properties:** Not considered to be an explosion hazard

### 9.2. Other information

**Softening Point:** No information available  
**Molecular Weight:** N/A  
**VOC Content(%):** No information available  
**Liquid Density** No information available  
**Bulk density** No information available

## 10. Stability and Reactivity

**Reactivity** No information available.  
**Chemical stability** Stable under normal conditions.  
**Possibility of hazardous reactions** None under normal processing.  
**Conditions to avoid** None known based on information supplied.  
**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.  
**Hazardous decomposition products** Phosphorus oxides.

## 11. Toxicological Information

### Information on likely routes of exposure

#### Product Information

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.  
**Eye contact** Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.  
**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).  
**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

No information available

### Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 5,730.30 mg/kg  
**ATEmix (dermal)** 17,607.38 mg/kg  
**ATEmix (inhalation-dust/mist)** 23.81 mg/l

**Unknown Acute toxicity** 41.7 % of the mixture consists of ingredient(s) of unknown toxicity

7.47 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 15.97 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 41.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 41.7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 20.95 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD <sub>50</sub> :	Dermal LD <sub>50</sub> :	LC <sub>50</sub> (Lethal Concentration):
Trade Secret	= 1950 mg/kg ( Rat )	-	-
Proprietary	> 90 mL/kg ( Rat )	-	-
Trade Secret	= 3250 mg/kg ( Rat )	-	-
Trade Secret	= 3200 mg/kg ( Rat )	-	-
Trade Secret	> 2000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-

Trade Secret	= 5750 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	-
--------------	----------------------	-------------------------	---

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Irritating to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects:</b>	Eyes, Respiratory system, Skin.
<b>Other Adverse Effects:</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**12. Ecological Information****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Trade Secret	-	6800: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	-	-
Trade Secret	-	26.5: 96 h Oncorhynchus mykiss mg/L LC50 24.8 - 29.4: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3: 96 h Pimephales promelas mg/L LC50 33: 96 h Pimephales promelas mg/L LC50 static	-	-
Trade Secret	-	85.9: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

<b>Persistence and Degradability:</b>	No information available.
<b>Bioaccumulation:</b>	There is no data for this product.
<b>Other Adverse Effects:</b>	No information available.

**13. Disposal Considerations****Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

**14. Transport Information****DOT**

Description

Not DOT Regulated

**15. Regulatory Information****International Inventories**

**AICS** Complies  
**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies

Chemical name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Trade Secret	Present	Present ACTIVE	Present	-	Present	-	Present	Present [22795]	Present	Present
Proprietary	Present	Present ACTIVE	Present	-	Present	-	Present	Present [32224]	Present	Present
Trade Secret	Present	Present ACTIVE	Present	-	Present	-	Present	Present [39193]	Present	Present
Trade Secret	Present	Present ACTIVE	Present	-	Present	-	Present	Present [22519]	Present	Present
Trade Secret	Present	Present ACTIVE	Present	-	Present	-	Present	Present [22414]	Present	Present
Trade Secret	Present	Present ACTIVE	Present	-	Present	-	Present	Present [22516]	Present	Present
Trade Secret	Present	Present ACTIVE	Present	-	Present	-	Present	Present [22403]	Present	Present

**Inventory Legend**

**AICS** - Australian Inventory of Chemical Substances  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**RESTRICTIONS - REACH TITLE VII** No information available

**US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

56478 Crop Choice 5-20-10-1S

---

Chemical name	SARA 313 - Threshold Values %
Trade Secret	1.0
Trade Secret	1.0

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

**U.S. State Right-to-Know Regulations**

**California Proposition 65:**

This product does not contain any Proposition 65 chemicals

**16. Other Information**

**Prepared By:** HSE Department  
**Issue Date:** 01-Nov-2019  
**Revision Date:** 01-Nov-2019  
**Revision Note:** New Product

**Disclaimer:**

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. 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.

**End of Safety Data Sheet**