



# SAFETY DATA SHEET

Issue Date 02-Nov-2018

Revision Date 02-Nov-2018

Version 2

CS-400

Blush-Tone Acid Stain Caramel

## 1. IDENTIFICATION

### Product identifier

**Product Name** Blush-Tone Acid Stain Caramel

### Other means of identification

**Product Code** CS-400

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

**Recommended Use** Restricted to professional users.

**Uses advised against** Consumer use

### Details of the supplier of the safety data sheet

| <b>Supplier Address</b>   | <b>Manufacturer Address</b>   |
|---|---|
| Solomon Colors, Inc.<br>4050 Color Plant Road<br>Springfield, IL<br>62702 | Solomon Colors, Inc.<br>4050 Color Plant Road<br>Springfield, IL<br>62702 |

**Company Phone Number** 800-624-0261 (US & Canada); 217-522-3112 (Outside North America)

**24 Hour Emergency Phone Number** 800-373-7542

## 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                     |             |
|-------------------------------------|-------------|
| Acute toxicity - Inhalation (Gases) | Category 4  |
| Skin corrosion/irritation           | Category 2  |
| Serious eye damage/eye irritation   | Category 1  |
| Carcinogenicity                     | Category 1A |

### Label elements

#### Emergency Overview

#### Danger

#### **Hazard statements**

Harmful if swallowed  
Harmful if inhaled  
Causes severe skin burns and eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause genetic defects  
May cause cancer  
May damage fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure



**Appearance** aqueous solution

**Physical state** Liquid

**Odor** Strong Pungent

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing must not be allowed out of the workplace  
 Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 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  
 Remove/Take off immediately all contaminated clothing  
 Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store in accordance with local regulations

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Hazards not otherwise classified (HNOC)**

**Other Information**

- May be harmful if swallowed
- Toxic to aquatic life with long lasting effects
- Harmful to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name     | CAS No.   | Weight-% | Trade Secret |
|-------------------|-----------|----------|--------------|
| Ferrous Chloride  | 7758-94-3 | 1-20     | *            |
| Hydrochloric acid | 7647-01-0 | 0-20     | *            |
| Ferric Chloride   | 7705-08-0 | 0 - 25   | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### Description of first aid measures

|                       |   |
|-----------------------|---|
| <b>General advice</b> | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).    |
| <b>Eye contact</b>    | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                 |
| <b>Skin Contact</b>   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.                        |
| <b>Inhalation</b>     | If fumes from reactions are inhaled, move to fresh air immediately. Call a physician or poison control center immediately.        |
| <b>Ingestion</b>      | If swallowed, call a poison control center or physician immediately. Clean mouth with water and drink afterwards plenty of water. |

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

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

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Runoff may pollute waterways.

**Hazardous combustion products** Hydrogen chloride.

### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Keep people away from and upwind of spill/leak. Ventilate affected area. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Avoid contact with skin, eyes and inhalation of vapors.

### Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Dike far ahead of liquid spill for later disposal. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Avoid breathing vapors or mists. Wash thoroughly after handling.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original container. Keep in properly labeled containers. Keep from freezing.

**Incompatible materials** Strong oxidizing agents. Metals. Alkali.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name                  | ACGIH TLV                   | OSHA PEL   | NIOSH IDLH   |
|--------------------------------|-----------------------------|--|--|
| Ferrous Chloride<br>7758-94-3  | TWA: 1 mg/m <sup>3</sup> Fe | (vacated) TWA: 1 mg/m <sup>3</sup> Fe  | TWA: 1 mg/m <sup>3</sup> Fe                                    |
| Hydrochloric acid<br>7647-01-0 | Ceiling: 2 ppm              | (vacated) Ceiling: 5 ppm<br>(vacated) Ceiling: 7 mg/m <sup>3</sup><br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> | IDLH: 50 ppm<br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> |
| Ferric Chloride<br>7705-08-0   | TWA: 1 mg/m <sup>3</sup> Fe | (vacated) TWA: 1 mg/m <sup>3</sup> Fe  | TWA: 1 mg/m <sup>3</sup> Fe                                    |

*NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash face, hands and any exposed skin thoroughly after handling. Use personal protective equipment as required. Avoid prolonged or repeated contact with skin. Avoid breathing (dust, vapor, mist, gas). Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                  |                       |                          |
|-----------------------|------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid           | <b>Odor</b>           | Strong Pungent           |
| <b>Appearance</b>     | aqueous solution | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | brown            |                       |                          |

| <u>Property</u>                      | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                            | No information available |                         |
| <b>Melting point/freezing point</b>  | No information available |                         |
| <b>Boiling point / boiling range</b> | No information available |                         |
| <b>Flash point</b>                   | No information available |                         |
| <b>Evaporation rate</b>              | No information available |                         |
| <b>Flammability (solid, gas)</b>     | No information available |                         |
| <b>Flammability Limit in Air</b>     |                          |                         |
| <b>Upper flammability limit:</b>     | No information available |                         |
| <b>Lower flammability limit:</b>     | No information available |                         |
| <b>Vapor pressure</b>                | No information available |                         |
| <b>Vapor density</b>                 | No information available |                         |
| <b>Specific Gravity</b>              | No information available |                         |
| <b>Water solubility</b>              | No information available |                         |
| <b>Solubility in other solvents</b>  | No information available |                         |
| <b>Partition coefficient</b>         | No information available |                         |
| <b>Autoignition temperature</b>      | No information available |                         |
| <b>Decomposition temperature</b>     | No information available |                         |
| <b>Kinematic viscosity</b>           | No information available |                         |
| <b>Dynamic viscosity</b>             | No information available |                         |
| <b>Explosive properties</b>          | No information available |                         |
| <b>Oxidizing properties</b>          | No information available |                         |

### Other Information

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous polymerization**      Hazardous polymerization does not occur.

### Conditions to avoid

Strong oxidizing agents. Storage near to reactive materials. To avoid thermal decomposition, do not overheat.

### Incompatible materials

Strong oxidizing agents. Metals. Alkali.

### Hazardous Decomposition Products

Chlorine. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |                    |
|----------------------------|--------------------|
| <b>Product Information</b> | No data available  |
| <b>Inhalation</b>          | No data available. |
| <b>Eye contact</b>         | No data available. |
| <b>Skin Contact</b>        | No data available. |
| <b>Ingestion</b>           | No data available. |

| Chemical Name                  | Oral LD50                               | Dermal LD50             | Inhalation LC50         |
|--------------------------------|---|-------------------------|-------------------------|
| Ferrous Chloride<br>7758-94-3  | = 450 mg/kg ( Rat )                     | -                       | -                       |
| Hydrochloric acid<br>7647-01-0 | 238 - 277 mg/kg ( Rat )                 | > 5010 mg/kg ( Rabbit ) | = 1.68 mg/L ( Rat ) 1 h |
| Ferric Chloride<br>7705-08-0   | = 316 mg/kg ( Rat ) = 450 mg/kg ( Rat ) | -                       | -                       |

### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name                  | ACGIH | IARC    | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| Hydrochloric acid<br>7647-01-0 | -     | Group 3 | -   | X    |

*IARC (International Agency for Research on Cancer)*

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic toxicity** May cause adverse liver effects.

**Target Organ Effects** Eyes, Gastrointestinal tract (GI), liver, Respiratory system, Skin.

**Aspiration hazard** No information available.

### Numerical measures of toxicity - Product Information

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

**ATEmix (oral)** 3526 mg/kg

**ATEmix (inhalation-gas)** 14083 mg/l

**ATEmix (inhalation-dust/mist)** 12.5 mg/l

## 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

### Ecotoxicity

Toxic to aquatic life with long lasting effects

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

| Chemical Name                | Partition coefficient |
|------------------------------|-----------------------|
| Ferric Chloride<br>7705-08-0 | -4                    |

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated packaging**

Do not reuse container.

| Chemical Name                | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Ferric Chloride<br>7705-08-0 | Toxic<br>Corrosive                |

## 14. TRANSPORT INFORMATION

### DOT

**UN/ID no.** UN3264  
**Proper shipping name** Corrosive liquid, NOS, (Hydrochloric Acid, Solution)  
**Hazard Class** 8  
**Packing Group** III  
**Marine pollutant** This product contains a chemical which is listed as a marine pollutant according to DOT.

**UN/ID no.** UN3264  
**Proper shipping name** Corrosive liquid, NOS, (Hydrochloric Acid, Solution)  
**Hazard Class** 8  
**Packing Group** III  
**Marine pollutant** This product contains a chemical which is listed as a marine pollutant according to TDG.

**UN/ID no.** UN3264  
**Proper shipping name** Corrosive liquid, NOS, (Hydrochloric Acid, Solution)  
**Hazard Class** 8  
**Packing Group** III

**UN/ID no.** UN3264  
**Proper shipping name** Corrosive liquid, NOS, (Hydrochloric Acid, Solution)  
**Hazard Class** 8  
**Packing Group** III

**UN/ID no.** UN3264  
**Proper shipping name** Corrosive liquid, NOS, (Hydrochloric Acid, Solution)  
**Hazard Class** 8  
**Packing Group** III

**Proper shipping name** Corrosive liquid, NOS, (Hydrochloric Acid, Solution)  
**Hazard Class** 8  
**Packing Group** III  
**Marine pollutant** This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO



## 15. REGULATORY INFORMATION

### International Inventories

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | Complies |

### Legend:

**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  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **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

| Chemical Name                 | SARA 313 - Threshold Values % |
|-------------------------------|-------------------------------|
| Hydrochloric acid - 7647-01-0 | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ferrous Chloride<br>7758-94-3  | 100 lb                      | -                      | -                         | X                          |
| Hydrochloric acid<br>7647-01-0 | 5000 lb                     | -                      | -                         | X                          |
| Ferric Chloride<br>7705-08-0   | 1000 lb                     | -                      | -                         | X                          |

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                  | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|--------------------------------|--------------------------|----------------|--|
| Ferrous Chloride<br>7758-94-3  | 100 lb                   | -              | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ  |
| Hydrochloric acid<br>7647-01-0 | 5000 lb                  | 5000 lb        | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Ferric Chloride<br>7705-08-0   | 1000 lb                  | -              | RQ 1000 lb final RQ<br>RQ 454 kg final RQ  |

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

| <b>Chemical Name</b>           | <b>New Jersey</b> | <b>Massachusetts</b> | <b>Pennsylvania</b> |
|--------------------------------|-------------------|----------------------|---------------------|
| Ferrous Chloride<br>7758-94-3  | X                 | X                    | X                   |
| Hydrochloric acid<br>7647-01-0 | X                 | X                    | X                   |
| Ferric Chloride<br>7705-08-0   | X                 | X                    | X                   |

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**NFPA**                      **Reactivity** 0                      **Physical and Chemical** **HMIS**                      **Health hazards** 0  
**Flammability** 0                      **Physical hazards** 0                      **Properties -**  
**Personal protection** X

**Issue Date**    02-Nov-2018  
**Revision Date**    02-Nov-2018  
**Revision Note**  
No information available

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**