

CF 908 CARBON

CF908 Carbon black

# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product identifier****Product Name** CF908 Carbon black**Other means of identification****Product Code** CF 908 CARBON**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****Supplier Address**Solomon Colors, Inc.  
4050 Color Plant Road  
Springfield, IL  
62702**Manufacturer Address**Solomon Colors, Inc.  
4050 Color Plant Road  
Springfield, IL  
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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

|                 |   |
|-----------------|---|
| Carcinogenicity | Category 2B See Section 11: TOXICOLOGICAL INFORMATION |
|-----------------|---|

**Label elements****Emergency Overview****Warning****Hazard statements**

Causes mild skin irritation

**Appearance** Black Liquid**Physical state** Liquid**Odor** Characteristic**Precautionary Statements - Prevention**Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Contaminated work clothing should not be allowed out of the workplace  
Use personal protective equipment as required  
In case of inadequate ventilation wear respiratory protection**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  
 IF ON SKIN: Wash with plenty of soap and water  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

**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 in contact with skin

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name | CAS No.   | Weight-% | Trade Secret |
|---------------|-----------|----------|--------------|
| Carbon Black  | 1333-86-4 | 30-40    | *            |

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

**4. FIRST AID MEASURES**

**Description of first aid measures**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash with soap and water. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth.

**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**

Carbon dioxide (CO2). Foam. Dry chemical. Water spray (fog).

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

**Specific hazards arising from the chemical**

No information available.

**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** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Cover powder spill with plastic sheet or tarp to minimize spreading. Vacuum or sweep up material and place in a designated labeled waste container.

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

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical Name             | ACGIH TLV   | OSHA PEL   | NIOSH IDLH  |
|---------------------------|---|--|---|
| Carbon Black<br>1333-86-4 | TWA: 3 mg/m <sup>3</sup> inhalable particulate matter | TWA: 3.5 mg/m <sup>3</sup><br>(vacated) TWA: 3.5 mg/m <sup>3</sup> | IDLH: 1750 mg/m <sup>3</sup><br>TWA: 3.5 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |

*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**                      Showers  
Eyewash stations  
Ventilation systems.

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

- Eye/face protection**                      Wear safety glasses with side shields (or goggles).
- Skin and body protection**                      Wear protective gloves and protective clothing.
- 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**                      Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                      |                          |                         |                          |
|--------------------------------------|--------------------------|-------------------------|--------------------------|
| <b>Physical state</b>                | Liquid                   | <b>Odor</b>             | Characteristic           |
| <b>Appearance</b>                    | Black Liquid             | <b>Odor threshold</b>   | No information available |
| <b>Color</b>                         | Black                    |                         |                          |
| <b>Property</b>                      | <b>Values</b>            | <b>Remarks • Method</b> |                          |
| <b>pH</b>                            | >8                       |                         |                          |
| <b>Melting point/freezing point</b>  | N/A 32F                  |                         |                          |
| <b>Boiling point / boiling range</b> | N/A                      |                         |                          |
| <b>Flash point</b>                   | N/A                      |                         |                          |
| <b>Evaporation rate</b>              | N/A                      |                         |                          |
| <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>              | 1.7-1.9                  |                         |                          |
| <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>      | >140°C/284°F °C          |                         |                          |
| <b>Decomposition temperature</b>     | 572F/300C                |                         |                          |
| <b>Kinematic viscosity</b>           | No information available |                         |                          |
| <b>Dynamic viscosity</b>             | No information available |                         |                          |

**Explosive properties** No information available  
**Oxidizing properties** No information available

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** No information available  
**Density** No information available  
**Bulk density** 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**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |   |
|----------------------------|---|
| <b>Product Information</b> | No data available                                   |
| <b>Inhalation</b>          | May cause irritation of respiratory tract.          |
| <b>Eye contact</b>         | Contact with eyes may cause irritation.             |
| <b>Skin Contact</b>        | Prolonged contact may cause redness and irritation. |
| <b>Ingestion</b>           | May cause mechanical irritation.                    |

| Chemical Name             | Oral LD50             | Dermal LD50         | Inhalation LC50 |
|---------------------------|-----------------------|---------------------|-----------------|
| Carbon Black<br>1333-86-4 | > 15400 mg/kg ( Rat ) | > 3 g/kg ( Rabbit ) | -               |

### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** Did not cause sensitization on laboratory animals.  
**Germ cell mutagenicity** None known.  
**Carcinogenicity** Carbon Black - Not a hazardous substance or preparation according to the Global Harmonized System (GHS). In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of carbon black." Based on rat inhalation studies IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black". IARC's overall evaluation was that "Carbon black is possibly carcinogenic to humans (Group 2B)." This conclusion was based on IARC's guidelines, which require such a classification if one animal species exhibits carcinogenicity in two or more studies. Lung tumors in rats are the result of exposure under "lung overload" conditions. The development of lung tumors in rats is specific to this species. Mouse and hamster showed no carcinogenicity in similar studies. In 2006 IARC re-affirmed its 1995 classification of carbon black as Group 2B (possibly carcinogenic to humans). Overall, as a result of the detailed epidemiological investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated. This view is consistent with the IARC evaluation in 2006. Furthermore, several epidemiological and clinical studies of workers in the carbon black production industries show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black. No dose response relationship was observed in workers exposed to carbon black. Applying the rules of the Globally Harmonized System of Classification and Labeling (GHS, e.g. UN 'Purple Book', EU CLP Regulation) the results of repeated dose toxicity and carcinogenicity studies in animals do not lead to classification of Carbon Black for Specific Target Organ Toxicity (Repeated exposure) and carcinogenicity. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans. The European CLP Regulation also mentions, that no classification is indicated if the mechanism is not relevant to humans. Furthermore, the CLP guidance on classification and labeling states, that "lung overload" in animals is listed under mechanism not relevant to humans. The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name             | ACGIH | IARC     | NTP | OSHA |
|---------------------------|-------|----------|-----|------|
| Carbon Black<br>1333-86-4 | A3    | Group 2B | -   | X    |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 2B - Possibly Carcinogenic to Humans*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.

**Target Organ Effects** Eyes, Lymphatic System, Respiratory system.  
**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)** 10538 mg/kg  
**ATEmix (dermal)** 21021 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**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.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO (air)** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

## 15. REGULATORY INFORMATION

**EU - Not defined as a dangerous substance or preparation according to Council Directive 67/548/EEC and its various amendments and adaptations. WHMIS - This material is classified as D2A under the Canadian Worker Hazardous Materials Information System (WHMIS) criteria.**

### 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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

|  |    |
|--|----|
| <b>Acute health hazard</b>               | No |
| <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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **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

### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name            | California Proposition 65 |
|--------------------------|---------------------------|
| Carbon Black - 1333-86-4 | Carcinogen                |

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

| Chemical Name             | New Jersey | Massachusetts | Pennsylvania |
|---------------------------|------------|---------------|--------------|
| Carbon Black<br>1333-86-4 | X          | X             | X            |



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

|                |                    |                                       |             |                  |
|----------------|--------------------|---------------------------------------|-------------|------------------|
| <u>NFPA</u>    | Reactivity 0       | Physical and Chemical<br>Properties - | <u>HMIS</u> | Health hazards 0 |
| Flammability 0 | Physical hazards 0 | Personal protection X                 |             |                  |

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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**