

SAFETY DATA SHEET

CHARSOL BN-9

Revision Date: 2015/06/25

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Version: 1.0

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture:

Name: CHAR SOL BN-9

Product code: BN9

Use of the substance/preparation: Food ingredient

Company/undertaking identification:

Registered company name: Red Arrow Products, a Kerry Business

Address: 633 S. 20th Street, Manitowoc, WI 54220

Telephone: (920) 769-1100 Fax: (920) 769-1281

Email: sds@redarrowusa.com

<http://www.redarrowusa.com>

Emergency telephone: 800-255-3924

Association/Organization: Chem Tel, Inc. msds@chemtelinc.com

2 - HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Aspiration hazard (Category 2)

Serious eye damage/eye irritation (Category 2)

Skin corrosion/irritation (Category 2)

Signal Word: Warning

Signal Word: Warning



Hazard Statements:

Harmful if inhaled

Harmful in contact with skin

Causes eye irritation

Precautionary Statements:

Avoid breathing dust/fume/gas/mist/vapours/spray

IF ON SKIN: Wash with soap and water

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

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

3 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | EC Number | Percent | Hazardous | Chemical Characterization |
|--------------|------------|-----------|---------|-----------|---------------------------|
| acetic acid | 64-19-7 | 200-580-7 | <2 | Yes | carboxylic acid |
| formaldehyde | 50-00-0 | 200-001-8 | <0.5 | Yes | |

4 - FIRST AID MEASURES

In the event of exposure by inhalation:

Remove the victim to fresh air. Get medical attention if irritation develops and persists or if breathing is difficult.

In the event of splashes or contact with eyes:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

In the event of splashes or contact with skin:

Flush contaminated skin with water. Remove contaminated clothing and shoes, Get medical attention if irritation develops and persists.

In the event of swallowing:

Rinse mouth out with water. Give victim copious amounts of water. Do not give anything to an unconscious victim. Do not induce vomiting. Get medical attention if symptoms occur.

5 - FIRE-FIGHTING MEASURES

Listed fire data is for Products containing less than 10% acetic acid

Fire: Not combustible, keep container cool.

Explosion:

Fire Extinguishing Media: Foam, water spray, dry chemical, CO₂

Special Information: Self-contained breathing apparatus if acetic acid exposure level is exceeded. Protective clothing should be worn if fighting fires.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear proper personal protective equipment, see section 8. Locate the nearest emergency exit. Monitor area for exposure limits taking precautions if limits are exceeded.

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Environmental precautions:

Dike the area to avoid release into the environment. Recovered liquid can be placed into a plastic drum for proper disposal. Contact your local environmental authority. See section 12 for further information.

Methods used for containment/cleanup:

Absorbent booms can be used for a dike for small spills. Clean up with absorbent material such as pads or kitty litter.

7 - HANDLING AND STORAGE

Safe Handling:

Move product only in tightly sealed containers. Open containers in a well ventilated area with care. Wear proper personal protective equipment, see section 8. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good housekeeping.

Safe Storage:

Store in tightly-closed containers in dry conditions.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value: for Products containing less than 10% acetic acid.

Values for Glacial Acetic Acid:

10 ppm (25mg/m³) OSHA PEL, ACGIH TWA, NIOSH REL, UK OES TWA

15 ppm (37 mg/m³) ACGIH,STEL,NIOSH STEL,UK OES STEL

50 ppm (125 mg/m³) NIOSH IDLH

Engineering Controls:

Local exhaust or other engineering controls are needed to minimize. Avoid creating mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Respiratory protection:

Not normally required if used in a well ventilated area. If used in poorly ventilated areas or if exposure levels are expected to be exceeded, use required respiratory (NIOSH approved organic respirator) to prevent exposure.

Hand protection:

Neoprene gloves

Eye and face protection:

Wear safety glasses. If risk of splashing wear safety goggles or safety glasses with face shield.

Skin protection:

A protective apron is recommended when splashes are likely. Wear chemical resistant work shoes. Rubber boots should be worn for spill response.

9 - PHYSICAL AND CHEMICAL PROPERTIES

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| |
|---|
| Odor: Smoky |
| Boiling point °C: Not Applicable |
| Appearance: Brown liquid |
| Flash point °C: >100°C |
| Form: Liquid |
| Color: Brown |
| Solubility (water) : Moderately soluble |
| Specific Gravity, g/ml: 1.085 - 1.120 |
| Vapor pressure @ 20°C Pa: <1.0 mmHg |
| Vapor density: >1.0 (air = 1.0) |
| Melting point/freezing point °C: Not Applicable |
| Relative density: 1.104 |
| Flammability limit in air, upper % by volume: Not Applicable |
| Flammability limit in air, lower % by volume: Not Applicable |
| Auto-ignition temperature: Not Applicable |
| Bulk Density, g/cc: Not Applicable |

10 - STABILITY AND REACTIVITY

Reactivity:

Not considered to be reactive

Chemical stability:

Stable under normal conditions

Possibility of hazardous reactions:

None under normal processing.

Conditions to avoid:

None known

Incompatible materials:

Ferrous metals, galvanized metals.

Hazardous decomposition products:

Hydrogen, carbon monoxide, carbon dioxide.

11 - TOXICOLOGICAL INFORMATION

Potential Health Effects:

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None known

Inhalation: Can cause short term respiratory irritation.

Ingestion: Can irritate digestive tract.

Skin Contact: Contact with skin will cause irritation.

Eye Contact: Will cause irritation in contact with eyes.

Chronic Exposure:

Aggravation of Pre-existing Conditions: None known

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System): No information available.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): No information available.

Numerical Measures of Toxicity: No information available.

| Ingredient | Known | Anticipated | IARC Category |
|------------|-------|-------------|---------------|
|------------|-------|-------------|---------------|

Acute Toxicity:

12 - ECOLOGICAL INFORMATION

Degrades biologically. Comprised of food grade materials.

Ecotoxicity: Product is not believed to be ecotoxic.

Persistence and Degradability: Biodegrades, not persistent.

Bioaccumulative Potential: Material readily biodegrades. Accumulative potential believed not to exist.

Mobility in Soil: Water soluble, readily degrades.

Other adverse effects: None known.

13 - DISPOSAL CONSIDERATIONS

Waste and Product Packaging:

Treatment or disposal of waste generated by use of this product should be in compliance with local, state, and national requirements. Users are advised to consult with appropriate regulatory agencies before discharge, treatment, or disposal.

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14 - TRANSPORT INFORMATION

Land Transportation:

Hazard Class:

ID #

Packing Group: Packing Group III

DOT Regulations:

Not regulated as hazardous

Air Transportation:

Not classified as a dangerous good

Marine Pollutant:

Not a marine pollutant

15 - REGULATORY INFORMATION

| | | | | |
|--|------------------|------------------------|-----------------|---------------------|
| Chemical Weapons Convention: No | | TSCA 12(b): Yes | | CDTA: No |
| SARA 311/312: | Acute: No | Chronic: No | Fire: No | Pressure: No |
| Reactivity: No | | | | |

16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither Red Arrow Products, a Kerry Business, nor any of its subsidiaries or affiliates assume any liability whatsoever for completeness of this SDS or for the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

END OF SAFETY DATA SHEET