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

1.1 Product identifier
Product name: Annatto Food Color O/S
Material No: 70388
Safety No: 708716

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application: For food application.

1.3 Details of the supplier of the safety data sheet
Supplier: Chr. Hansen Inc.
9015 West Maple Street
53214-4298 Milwaukee - WI
Phone: +1 414 607-5700

Headquarters: Chr. Hansen A/S
Boge Allé 10-12
DK-2970 Horsholm
Tel. +45 45 74 74 74

1.4 Emergency telephone number
Emergency telephone: Health: 1-800-558-0802 (Monday through Friday, 7:30 AM to 5 PM CST) at other times, contact Chemtrec or the local poison control center. Transportation (Chemtrec): 1-800-424-9300 or +1-703-527-3887 (outside the U.S.)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
The product is not classified.

2.2 Label elements

Signal Word None.

Hazard statements None Precautionary statements None
Supplemental hazard information
None.

2.3 Other hazards

Physical and Chemical Hazards:
The hazardous properties of the product are considered to be limited.

Human health:
Degreasing to skin. Prolonged skin contact may cause redness and irritation.
The product does not contain any carcinogenic substances in amounts to be declared.

Environment:
The harmful effects of the product in the environment are considered to be limited.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
The product contains: food ingredients.

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Does not contain substances that must be indicated according to current regulations.

4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

Ingestion: Rinse mouth thoroughly. If uncomfortable: Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
Degreasing to skin. Prolonged skin contact may cause redness and irritation.

4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.
5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

5.2 Special hazards arising from the substance or mixture
During fire, health hazardous gases may be formed.
The explosion limits and the flash point are stated in section 9.

5.3 Advice for firefighters
Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin. Follow precautions for safe handling described in this safety data sheet. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up
Flush away small spillages with plenty of water.
Large quantities: Absorb spillage with suitable absorbent material. Flush contaminated area with plenty of water.

6.4 Reference to other sections
For personal protection, see section 8.
For waste disposal, see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Safe handling advice: Avoid contact with skin. Observe good industrial hygiene practices.

Technical measures: Keep the workplace clean.

Technical precautions: No special precautions.

7.2 Conditions for safe storage, including any incompatibilities
Store in tightly closed original container. Store at ambient temperature conditions. For detailed information consult the PI sheet. Protect against direct sunlight. Store in a dry place.

Technical measures for safe storage: No special precautions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Exposure limits are listed below. No data - no exposure limits noted for ingredient(s).
8.2 Exposure controls

Engineering measures: Provide adequate ventilation. Minimise the risk of inhalation of vapors and mist.

Respiratory equipment: Not relevant.

Hand protection: Nitrile gloves are recommended. Other types of gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection: Risk of contact: Wear goggles/face shield.

Skin protection: No special precautions.

Hygiene measures: Wash hands after contact.

Environmental Exposure Controls: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Color: Reddish orange
Odor: Characteristic
pH: Not relevant
Melting point: Not relevant
Boiling point: Not relevant
Decomposition temperature: Not relevant
Flash point: > 392.0 °F
Relative Density: 0.90 - 1.00
Solubility: Oil soluble

9.2 Other information
No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity
None known.

10.2 Chemical stability
Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions
None known.

10.4 Conditions to avoid
Avoid exposure to high temperatures or direct sunlight.
10.5 Incompatible materials
   None known.

10.6 Hazardous decomposition products
   None known.

11. TOXICOLOGICAL INFORMATION
   11.1 Information on toxicological effects
      
      **Inhalation:** Not relevant at normal room temperatures.
      
      **Skin contact:** Degreasing. Prolonged contact may cause redness, irritation and cracking.
      
      **Eye contact:** May cause temporary eye irritation.
      
      **Ingestion:** May irritate and cause malaise.
      
      **Specific effects:** None known, unless listed below.

      The product does not contain any carcinogenic substances in amounts to be declared.

12. ECOLOGICAL INFORMATION
   12.1 Ecotoxicity
      The harmful effects of the product in the environment are considered to be limited.

   12.2 Persistence and degradability
      The product is expected to be biodegradable.

   12.3 Bioaccumulative potential
      Bioaccumulation: Is not expected to be bio-accumulable.

   12.4 Mobility in soil
      The product is insoluble in water and will spread on the water surface.

   12.6 Other adverse effects
      None known.

13. DISPOSAL CONSIDERATIONS
   13.1 Waste treatment methods
      Dispose of waste and residues in accordance with local authority requirements.
14. TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

14.1 UN number

14.2 UN proper shipping name

Air (ICAO/IATA):
14.3 Transport hazard class(es) -
14.4 Packing group -

Sea (IMDG):
14.3 Transport hazard class(es) -
14.4 Packing group -

EmS -
MFAG -

Land (DOT):
14.3 Transport hazard class(es) -
14.4 Packing group -

14.5 Environmental hazards
Marine pollutant (IMDG): -

14.6 Special precautions for user
None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NFPA: Health: 1 Fire: 1 Reactivity: 0 Other: -

All chemicals are listed on TSCA.

Specific Provisions: State and local regulations may apply.
16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: 3, 8.

Wording of Hazard Statements

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss injury, damage, or expense resulting from improper use of this product.