



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

- **Feed Grade Caramel**(Compliant with GB/T 16483, GHS Rev.9, IMDG, IATA)**Revision Date: 20 FEB 2026**

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Name: Caramel (Feed Grade)
- Product Number: CARA-FEED-20260220
- Brand: SIGALD
- CAS No.: 8028-89-5
- Synonyms: Feed Grade Caramel Color; Caramelized Sugar Syrup; Natural Brown Colorant

#### 1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BLDG 3, 188 Aona Rd, Shanghai FTZ, China
- Tel: +86-021-50350029 | Fax: +86-021-50350029

#### 1.3 Emergency Contact: +86-021-50350029 (24h)

#### 1.4 Uses & Restrictions

- **Identified Uses:** Exclusive for animal feed additive; natural brown colorant for livestock, poultry and aquaculture feed, improves feed palatability and product pigmentation (e.g., egg yolk, meat).
- **Uses Advised Against:** Not for pharmaceutical, medical use; no direct human oral consumption in large quantities.

### SECTION 2: Hazards Identification

- **GHS Classification:** Not a hazardous substance or mixture (GHS 0 category)
- **Pictogram:** None
- **Signal Word:** None
- **Hazard Statements:** None
- **Precautionary Statements:** None

**Summary:** Dark brown homogeneous viscous liquid, non-toxic, non-flammable, non-explosive. Mild skin/eye irritation may occur in sensitive individuals due to viscosity and mild acidity; no acute/chronic health hazards. Environmentally friendly, fully biodegradable, no adverse effects on aquatic organisms.

### SECTION 3: Composition/Information on Ingredients

- **Substance/Mixture:** Complex mixture of caramelized saccharides (food/feed grade)
- **Main Active Components:** Caramelized glucose, fructose, maltose polymers (65.0-70.0% w/w)
- **Solvent/Matrix:** Deionized water (30.0-35.0% w/w)
- **Additives:** Food/feed grade acidity regulator ( $\leq 0.5\%$  w/w, non-hazardous)
- **Hazardous Ingredients:** None (all components comply with GB 13078.1-2017 feed safety standards)



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## SECTION 4: First Aid Measures

### 4.1 First-Aid Measures

- **Inhalation:** No significant inhalation risk (viscous liquid). If mist is inhaled and causes discomfort, move to fresh air; symptoms will subside spontaneously.
- **Skin Contact:** Wipe residual product with a dry cloth, then rinse skin with plenty of running water for 5-10 minutes. No special treatment required; mild stickiness may remain, wash with soap if needed.
- **Eye Contact:** Rinse eyes thoroughly with clean running water for 10-15 minutes, hold eyelids open during rinsing. Remove contact lenses if present. Consult an ophthalmologist only if mild irritation persists in sensitive individuals.
- **Ingestion (Human):** Rinse mouth with plenty of water. The product is non-toxic; no adverse effects from accidental small ingestion. Seek medical advice only if large amounts are swallowed and gastrointestinal discomfort occurs.

4.2 Key Symptoms & Effects: Mild temporary eye/skin irritation in sensitive individuals; no other acute/delayed toxic effects. 4.3 Antidote: No specific antidote; treat symptomatically if needed.

## SECTION 5: Firefighting Measures

5.1 Extinguishing Media: Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry chemical powder. All common agents are suitable.

5.2 Hazards in Fire: Non-combustible. Decomposes at high temperatures (>200°C) to produce non-toxic carbon dioxide and water; no hazardous combustion gases or smoke. No explosion risk.

5.3 Firefighter Advice: Wear standard fire-fighting gear (gloves, goggles). Cool surrounding containers with water spray to prevent thermal expansion and leakage. Avoid contact with hot viscous residue.

## SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Wear disposable nitrile gloves and safety glasses for large spills to avoid skin/eye contact. Ensure good ventilation in the spill area.

6.2 Environmental Precautions: No special environmental precautions; the product is fully biodegradable. Prevent large amounts from entering water bodies to avoid temporary water discoloration (no toxic impact).

6.3 Cleanup Methods:

- **Small Spill:** Wipe up with absorbent paper/cloth, dispose of as general non-hazardous waste. Rinse the area with water to remove stickiness.
- **Large Spill:** Contain with dikes to prevent spread, transfer to sealed HDPE drums with a pump for recycling or disposal. Clean the contaminated area with water and neutral detergent.

6.4 Disposal Reference: See Section 13.

## SECTION 7: Handling and Storage

### 7.1 Handling Precautions

- Operate in a well-ventilated area; use transfer pumps for bulk handling to avoid splashing and leakage.



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- Avoid contact with strong acids, strong bases and high-temperature environments (>60°C) to prevent color degradation and viscosity change.
- Hygiene Measures: Wash hands thoroughly with soap and water after handling; avoid touching eyes and mouth before hand washing.

## 7.2 Storage Conditions

- **Temperature:** ≤25°C, store in a cool, dry, well-ventilated warehouse; avoid direct sunlight and high temperature.
- **Packaging:** Keep containers tightly sealed in original HDPE drums to prevent evaporation, contamination and color fading.
- **Shelf Life: 24 months (unopened, under specified storage conditions)**
- **Incompatibilities:** Strong acids (pH<2), strong bases (pH>10), oxidizing agents (e.g., hydrogen peroxide, potassium permanganate)
- **Segregation:** Store separately from strong acids/bases, oxidizing agents and non-feed grade chemicals. Mark "FEED GRADE" clearly.

## SECTION 8: Exposure Controls/Personal Protection

8.1 Occupational Exposure Limit (OEL): No specific limit for feed grade caramel; follow general occupational hygiene standards.8.2 Engineering Controls: Basic ventilation in the handling area; use closed transfer systems for bulk loading/unloading to minimize splashing.8.3 Personal Protective Equipment (PPE)

- **Eye/Face Protection:** Safety glasses (recommended for bulk handling to prevent splashing).
- **Skin Protection:** Disposable nitrile rubber gloves (for prolonged/ direct contact).
- **Respiratory Protection:** Not required under normal handling conditions (no dust/mist risk).
- **Other:** Wear protective overalls to avoid staining work clothes.

## SECTION 9: Physical and Chemical Properties

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Property	Details
Physical State	Homogeneous viscous liquid
Color	Dark brown to black
Odor	Mild sweet caramel scent, no off-odor
pH Value (25°C, 10% solution)	3.0-5.5
Solid Content	65.0-70.0% (w/w)
Color Intensity	≥5000 EBC units (0.1% solution, 420nm)
Density (25°C)	1.25-1.35 g/cm <sup>3</sup>
Viscosity (25°C)	500-1500 mPa ·s
Melting Point	N/A (amorphous mixture)
Boiling Point	100-105°C (water evaporation, caramel decomposes at >200°C)
Flash Point	>100°C (Closed Cup)



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Property	Details
Flammability	Non-combustible
Water Solubility	Fully miscible with water
Solubility in Organic Solvents	Insoluble in ethanol, ether, oil
Vapor Pressure (25°C)	<0.5 hPa (equivalent to water vapor pressure)
Decomposition Temperature	>200°C

## SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions ( $\leq 25^{\circ}\text{C}$ , sealed, dark).

Color intensity and viscosity remain unchanged for the shelf life.

10.2 Hazardous Reactions: No hazardous reactions under normal use and storage conditions.

10.3 Conditions to Avoid: Direct sunlight, high temperature ( $>60^{\circ}\text{C}$ ), contact with strong acids/bases/oxidizing agents, prolonged exposure to air (evaporation).

10.4 Incompatible Materials: Concentrated sulfuric acid, sodium hydroxide (high concentration), hydrogen peroxide, potassium

permanganate.

10.5 Hazardous Decomposition Products: No hazardous decomposition products; decomposes into non-toxic  $\text{CO}_2$  and  $\text{H}_2\text{O}$  at high temperatures.

10.6 Hazardous Polymerization: Will not occur.

## SECTION 11: Toxicological Information

11.1 Toxicological Effects

- **Acute Toxicity:** Oral (Rat)  $\text{LD}_{50} > 20,000 \text{ mg/kg}$ ; Dermal (Rabbit)  $\text{LD}_{50} > 20,000 \text{ mg/kg}$  (Non-toxic)
- **Skin Corrosion/Irritation:** No skin irritation (Rabbit, 4-hour exposure; GHS Category 0)
- **Serious Eye Damage/Irritation:** Mild transient irritation (Rabbit, 24-hour exposure; fully reversible in sensitive individuals)
- **Respiratory/Skin Sensitization:** No sensitizing effects (no known allergic reactions)
- **Carcinogenicity:** IARC Classification - Group 3 (not classifiable); feed grade caramel is a food/feed additive with no carcinogenic risk.
- **Reproductive Toxicity:** No reproductive toxicity; no adverse effects on animal reproduction at recommended feed levels.
- **Target Organ Toxicity:** No single/repeated exposure target organ toxicity.
- **Aspiration Hazard:** Low (high viscosity liquid, no aspiration risk under normal handling).

11.2 Additional Information: The toxicological properties are fully studied; the product is safe for animal feed use and human accidental contact.

## SECTION 12: Ecological Information

12.1 Aquatic Toxicity:  $\text{LC}_{50}$  (Zebrafish, 96h)  $> 5000 \text{ mg/L}$ ;  $\text{EC}_{50}$  (Daphnia, 48h)  $> 2000 \text{ mg/L}$  (Non-toxic to aquatic organisms)

12.2 Persistence and Degradability: Fully biodegradable ( $\text{BOD}_5 / \text{COD} > 0.7$ ) in soil and aquatic environments; degraded by microorganisms within 21-28 days.

12.3 Bioaccumulative Potential: No bioaccumulation potential (natural saccharide)

mixture, metabolized by organisms).12.4 Mobility in Soil: Low mobility; binds to soil organic matter, no leaching risk, can be used as a mild carbon source for soil microorganisms.12.5 Environmental Impact: Environmentally friendly, no adverse effects on soil, water and terrestrial/aquatic organisms. Spilled product causes no secondary pollution and can be naturally degraded.

### SECTION 13: Disposal Considerations

13.1 Product Waste: Expired or degraded caramel is non-hazardous waste. Can be disposed of through licensed waste treatment facilities, or mixed into organic fertilizer (mild carbon source). Do not reuse degraded product (faded color, reduced viscosity) in feed.13.2

Packaging Waste: Rinse packaging thoroughly with water to remove residual product; recycle the HDPE drums as non-hazardous plastic waste or dispose of as general waste.13.3 Disposal Compliance: Comply with China General Solid Waste Pollution Control Law and local environmental regulations for liquid/solid waste disposal. No special treatment required for waste product.

### SECTION 14: Transport Information

- **UN Number:** None (Non-hazardous goods for transport)
- **UN Proper Shipping Name:** Caramel (Feed Additive), Not Dangerous Goods
- **Hazard Class:** None | **Packaging Group:** None | **Environmental Hazard:** No
- **Transport Precautions:**
  1. Transport in covered, dry ordinary cargo vehicles; avoid direct sunlight and high temperature ( $\leq 30^{\circ}\text{C}$ ) during transport.
  2. Secure packaging to prevent collision, leakage and drum damage; use pallets for stacking to avoid crushing.
  3. Avoid mixing with strong acids, strong bases, oxidizing agents and non-feed grade chemicals in the same vehicle.
  4. Protect packages from rain, snow and mechanical damage during transportation; use insulated vehicles in summer.

### SECTION 15: Regulatory Information

- **China:** Compliant with **GB 13078.1-2017 (Feed Hygiene Standard)**, listed in the *National Catalogue of Feed Additives* (natural feed colorant). Complies with GB 7718 feed label standards.
- **EU:** Compliant with EC 1831/2003 (Feed Additives Regulation), approved as a natural feed colorant. REACH registered (8028-89-5), not in SVHC List.
- **US:** TSCA listed (8028-89-5), approved by FDA/CVM for use in animal feed (21 CFR Part 573). Meets NRC feed additive safety standards.
- **International:** Meets Codex Alimentarius Commission standards for natural feed colorants and food/feed additives. Complies with OIE animal feed safety standards.

### SECTION 16: Other Information



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- **Disclaimer:** This MSDS is for feed grade caramel (8028-89-5) only. Misuse for non-feed purposes (e.g., large-scale human consumption, industrial non-colorant use) is at the user's sole risk. The supplier is not liable for damages resulting from improper handling, storage, transport or disposal of this product.
- **Key Note:** The product's color intensity and viscosity are temperature-sensitive; avoid high-temperature exposure during feed processing and storage to retain performance.
- **Revision Date:** 20 FEB 2026

