

SAFETY DATA SHEET

Originally Prepared: 12 May 2008

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Revision: 26 Apr 2018, this version supersedes all previous.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Caramel Colour Liquid

CAS No: 8028-89-5

EC No: 232-435-9

E NUMBER: E150

Exempt from Registration according to Article 2 of REACH, Regulation (EC) No. 1907/2006.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: colour for foodstuffs where permitted.

Uses advised against and reasons why: No available information

1.3 Details of the supplier of the safety data sheet

D.D. Williamson Colors LLC, 815 Sunset Road, Port Washington, WI, 53074 USA 1-262-268-7272

D.D. Williamson & Co., Inc., 1901 Payne Street, Louisville, KY, 40206 USA 1-800-CARAMEL

D.D. Williamson (Ireland) Ltd., Little Island Business Park, Co. Cork, Ireland T45 RR80 353-21-4353821

DDW Colours Ltd., Unit D, Island Corporate Park, Little Island, Co. Cork, Ireland T45 F673 353-21-4353821

D.D. Williamson (UK) Ltd., Trafford Park Road, Manchester M17 1PA, United Kingdom 44-161-886-3345

SuperiorPowders, Ltd., Factory Lane, Bason Bridge, Highbridge, TA9 4RN, United Kingdom 44 (0) 1278 784521

D.D. Williamson Ingredients (Shanghai) Ltd., 3823 Jiang Cheng Road, Minhang, Shanghai 200245, P.R. China 86-21-5-4720868

D.D. Williamson (Pty) Ltd., Smithco Industrial Park #19, King Mswati III Ave., Plot 471, Matsapha M202, Swaziland 268-2518-4869

D.D. Williamson do Brasil Ltda., Ave. Buriti 5680, Distrito Industrial, 69075-000 Manaus AM, Brasil 55-92-3301-4000

DDW Colours Sdn Bhd, PLO 221 Jln Bakau 6, Tg Langsat Ind Complex, 81700 Pasir Gudang, Johor, Malaysia 607 2575757

SDS inquires can be submitted to lauren.winfield@ddwcolor.com

1.4 Emergency telephone number

USA 1-800-CARAMEL (only during office hours)

Ireland 353-21-4353821 (only during office hours)

England 44-161-886-3345 (only during office hours)

United Kingdom 44 (0) 1278 784521 (only during office hours)

P.R. China 86-21-5-4720868 (only during office hours)

Swaziland 268-2518-4869 (only during office hours)

Brasil 55-92-3301-4000 (only during office hours)

Malaysia 607 2575757 (only during office hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification of the substance or mixture: Based on the available data, the classification criteria are not met.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram: Not Applicable

Signal word: Not Applicable

Hazard statements:

Not Applicable

Precautionary statements:

Not Applicable

2.3 Other hazards

None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances



Caramel Colour Liquid

CAS No: 8028-89-5

EC No: 232-435-9

This material is not considered hazardous.

3.2 Mixtures

Not applicable

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Use personal protective equipment as required. An eyewash and safety shower should be readily available. In the case of sudden unwellness seek medical advice.

Inhalation: Move patient to place with fresh air. Ventilate. If respiratory symptoms occur seek medical attention.

Skin contact: Product may temporarily stain skin. Wash with soap and water. If irritation occurs seek medical attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

Ingestion: Rinse mouth with water and drink plenty of water to dilute substance. Do not induce vomiting. Obtain medical advice if irritation occurs.

First aider protection: Personal protection equipment is recommended. (See Section 8)

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects: No significant symptoms are expected to occur due to the non-classification of the product.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: CO₂, Dry Chemicals, Foam, Water

Unsuitable extinguishing media: Avoid high pressure media which could cause the formation of a potentially explosive dust-air mixture.

5.2 Special hazards arising from the substance or mixture

Heat may generate irritating or corrosive vapours.

5.3 Advice for firefighters

Wear suitable breathing apparatus, flame and chemical resistant clothing, boots and gloves.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Avoid generating dust/vapours.

6.2 Environmental precautions

Avoid any spillage from entering waterways, drains or sewage systems.

6.3 Methods and material for containment and cleaning up

For small spills: clean up using appropriate appliances. Standard absorbents can be used. For large spills: collect into closed containers for disposal. Dispose of in accordance with regulations.

6.4 Reference to other sections

Information on exposure controls/personal protection and disposal considerations can be found in Section 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Protect against fire and explosion by avoiding sources of ignition. Where aerosols are created use suitable dust mask or breathing apparatus. Maintain good ventilation. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed and dry. Stainless steel or polyethylene containers are preferred. Protect against moisture, ignition sources and incompatible materials. Elevated storage temperatures accelerates product degradation. Incompatible with strong oxidising agents. Avoid extended storage by using as soon as possible within designated shelf life.

7.3 Specific end use(s)

colour for foodstuffs where permitted. It is the user's responsibility to ensure that the conditions and possible uses of the product conform to local laws and regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1 Control parameters

National Occupational Exposure Limits: There are no Occupational Exposure Limits set for the product

8.2 Exposure controls

Appropriate engineering controls: Keep airborne concentration of product low by enclosing production processes whenever possible. An eyewash and safety shower should be readily available.
Eye/face protection: Wear protective glasses, goggles or face shield.
Hand protection: Wear protective gloves during manufacturing and handling of this product.
Body/skin protection: Special clothing is not normally necessary when manufacturing or handling this product within a closed system. Wear chemical resistant full body coveralls whenever there is a possibility of splash or appreciable contact during manufacturing or handling.
Respiratory protection: Work in well ventilated area. In case of insufficient ventilation, wear suitable breathing apparatus.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

APPEARANCE: Brown liquid
ODOUR: Characteristic
ODOUR THRESHOLD: Not established
pH: 3 – 10
MELTING POINT: Not established
BOILING POINT: >99°C (210°F)
FLASH POINT: >99°C (210°F)
EVAPORATION RATE: Not established
FLAMMABILITY: Not established
UPPER/LOWER FLAMMABILITY: Not established
VAPOUR PRESSURE: Not established
VAPOUR DENSITY: Not established
RELATIVE DENSITY: 1.0 – 1.5
SOLUBILITY: Water
PARTITION COEFFICIENT: Not established
AUTO-IGNITION TEMPERATURE: Not established
DECOMPOSITION TEMPERATURE: Not established
VISCOSITY: Not established
EXPLOSIVE PROPERTIES: Not established
OXIDISING PROPERTIES: Not established

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions occur under normal conditions of use and storage as indicated.

10.2 Chemical stability

Product has a tendency to continue the polymerization process forming a gel. This product is stable under normal storage conditions. Avoid extended storage by using as soon as possible within designated shelf life.

10.3 Possibility of hazardous reactions

No hazardous reactions occur under normal conditions of use and storage as indicated.

10.4 Conditions to avoid

May degrade in light. Avoid extended storage by using as soon as possible within designated shelf life.

10.5 Incompatible materials

Avoid strong acids, bases, and oxidising agents.

10.6 Hazardous decomposition products

No known hazardous materials produced upon decomposition when used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Based on the data available the classification criteria are not met.

Skin corrosion/irritation:

Data lacking.



Serious eye damage/irritation:

Data lacking.

Respiratory or skin sensitisation:

Data lacking.

Germ cell mutagenicity:

Data lacking.

Carcinogenicity:

Data lacking.

Substance(s) listed on IARC Monograph: Not applicable.

Substance(s) listed as OSHA Carcinogen(s): Not applicable.

Substance(s) listed as NIOSH Carcinogen(s): Not applicable.

Substance(s) listed on the NTP Report on Carcinogens (ROC): Not applicable.

Reproductive toxicity:

Data lacking.

STOT-single exposure:

Data lacking.

STOT-repeated exposure:

Data lacking.

Aspiration hazard:

Data lacking.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

May lead to a local change in the pH of an aquatic environment which may have adverse effects on aquatic organisms.

12.2 Persistence and degradability

No specific data available.

12.3 Bioaccumulative potential

No specific data available.

12.4 Mobility in soil

The product is water soluble and may spread in water systems.

12.5 Results of PBT and vPvB assessment

Does not meet PBT or vPvB criteria according to Annex XIII of REACH

12.6 Other adverse effects

Product may contribute to biological oxygen demand (BOD) and chemical oxygen demand (COD).

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this product in accordance with International, National, Federal, State, and local regulations. Avoid spillage from entering waterways, drains or sewage as product may contribute to biological oxygen demand (BOD) and chemical oxygen demand (COD).

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR UN number: Not classified as a dangerous good under transport regulations.

RID UN number: Not classified as a dangerous good under transport regulations.

ADN UN number: Not classified as a dangerous good under transport regulations.

IMDG UN number: Not classified as a dangerous good under transport regulations.

IATA/ICAO UN number: Not classified as a dangerous good under transport regulations.

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not classified as a dangerous good

14.4 Packing group

Not classified as a dangerous good

14.5 Environmental hazards

Not classified as a dangerous good

14.6 Special precautions for user

Not classified as a dangerous good



14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

There are no special transportation requirements for this product. This product is not classified as hazardous under the US Department of Transportation (DOT) regulations. Further, in that the DOT regulations follow the recommendations on the Transport of Dangerous Goods by the United Nations Committee of Experts, determination that this product is not dangerous also applies to international shipments under those regulations and tariffs which follow the UN recommendations, eg. IMDG (ocean transport) and IATA (air transport).

SECTION 15. REGULATORY INFORMATION

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

This product is classified according to Regulation (EU) No. 2015/830 and Regulation (EC) No. 1272/2008.

This product is not considered hazardous according to Regulation (EC) No. 1272/2008 (CLP) or Council Directive 67/548/EEC and its various amendments and adaptations.

This product is in compliance with EU regulations 1129/2011 and 231/2012 concerning the purity requirements of ingredients which can be added to foodstuffs.

EC inventory: The components of this product are found on the inventory list or are exempt.

UNITED STATES OF AMERICA (USA): All ingredients contained in this product are approved for use according to 21 CFR § 73.85, a Regulation of the Food and Drug Administration, and conform to the specifications of the Food Chemical Codex (FCC).

U.S. TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are exempted from listing.

CALIFORNIA PROPOSITION 65: The process of manufacturing Class III or IV Caramel Colours forms 4-Methylimidazole (4-Mel), a chemical believed by the state of California to cause cancer. 4-Mel is a common trace element created naturally in the heat processing of many foods and beverage products, including Class III and IV Caramel Colours.

CANADA:

Domestic Substances List (DSL): The components of this product are listed on the DSL list or are exempt.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the manufacturer.

SECTION 16. OTHER INFORMATION

Versions of this document dated previous to the revision date on this document are no longer valid. The above information was prepared based on our present-day knowledge from current and reputable sources, however the data provided herein without any warranty, expressed or implied, regarding its correctness or accuracy. The information contained in this safety data sheet does not constitute an assessment of workplace risks. It is the users' responsibility to ensure safe conditions for handling, storage and disposal of this product and to assume liability for loss, injury, damage, or expense resulting from improper use of this product. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user. The information herein is intended to provide a general guidance for the health and safety of the handling, storage, and use of the product.

The following sections have been amended from the previous version(s): Update to Format



Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS No: Chemical Abstract Service Number (division of the American Chemical Society)
CLP: Classification, Labelling, Packaging
CO2: Carbon Dioxide
DNEL: Derived No Effect Level
EC: European Commission
EC No: The EINECS, ELINCS or NLP, is the official number of the substance within the European Union
EINECS: European Inventory of Existing Commercial Chemical Substances
EU: European Union
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IBC Code: International Bulk Chemical Code
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
NIOSH: National Institute for Occupational Safety and Health
NTP: National toxicology program
OSHA: Occupational Safety and Health Administration
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
P.R. China: People's Republic of China
REACH: Registration, Evaluation, Authorisation, and restriction of Chemicals
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
STEL: Short Term Exposure limit
STOT: Specific Target Organ Toxicity
TLV: Threshold Limiting Value
TWA: 8-hour Time Weighted Average given for that substance in any 8-hour work shift of a 40-hour work week.
vPvB: very Persistent and very Bioaccumulative

Training advice: The product should only be handled by trained operators.

**SAFETY DATA SHEET PREPARED BY
D.D. WILLIAMSON SUPPORT CENTER, April, 2018
IN CONFORMITY WITH (EC) 1907/2006 (REACH), (EC) 1272/2008 (CLP) AND (EU) 2015/830 REGULATIONS
AS WELL AS 29 CFR 1910.1200 OSHA STANDARDS.**