

SAFETY DATA SHEET

Originally Prepared: 08 Aug 2013

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Revision: 12 Jun 2017, this version supersedes all previous.

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Identification of the Substance

Water Soluble Annatto Extract

REACH Legal Entity Name	REACH Pre-Registration Number
Not Applicable	Not Applicable

ECC NUMBER: E160b

1.2 Use of Substance

As a for foodstuffs where permitted.

1.3 Company Identification

DDW Colors LLC, 815 Sunset Rd, Port Washington, WI, 53074-0410 USA 1-262-268-7272

D.D. Williamson & Co., Inc., 1901 Payne Street, P.O. Box 6001, Louisville, KY, 40206 USA 1-800-CAMEL

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

DDW Colours, Ltd., Unit D, Island Corporate Park, Little Island, Co. Cork, Ireland 353-21-4978150

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

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

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

D.D. Williamson (Pty) Ltd., Smithco Industrial Park #19, King Mswati III Avenue, Plot 471, Matsapha, Swaziland 268-251-84869

D.D. Williamson do Brasil Ltda., Ave. Buriti 5680, Distrito Industrial, 69075 - 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 also be submitted to lauren.winfield@ddwcolor.com

1.4 Emergency Telephone Number

USA 1-800-CAMEL (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 268-251-84869 (only during office hours)

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

Malaysia 607 2575757 (only during office hours)

2. HAZARDS IDENTIFICATION

2.1 Substance is classified as hazardous. This product poses no hazards under recommended conditions of handling and usage. If misused in its concentrated form, the product may be harmful to health as an irritant.

Classification: Irritant. (Xi)

2.2 Pictogram:



Signal Word: Warning

2.3 Hazard Statements:

H302 Harmful if swallowed

H312, H315, 320 Harmful in contact with skin, causes skin and eye irritation

H332 Harmful if inhaled

H401 To avoid risks to human health and the environment, comply with the instructions for use.



Precautionary Statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash all exposed skin thoroughly after handling.

P270 Do Not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312+330 If swallowed: rinse mouth. Call poison center or doctor/physician if you feel unwell.

P302+P352 If on skin: wash with plenty of soap and water.

P304+340 If inhaled: remove person to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: get medical advice/attention.

P332+P313 If skin irritation occurs: get medical advice/attention.

P362 Take off contaminated clothing and wash it before reuse.

P501 Dispose of content/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 The product is manufactured by extraction of annatto seed with an alkaline water solution.

The identity of the individual components of this product is proprietary information and is considered a trade secret pursuant to 29 CFR § 1910.1200.

Water Soluble Annatto Extract

REACH Legal Entity Name	REACH Pre-Registration Number
Not Applicable	Not Applicable

CAS NUMBER: 542-40-5, 1310-58-3

EINECS NUMBER: 208-801-8, 215-181-3

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR § 1910.1200). The following hazardous substances shall be indicated according to legislation:

Chemical Name, CAS-No, EINECS-No, %

Potassium Hydroxide (KOH), 1310-58-3, 215-181-3, 0.5 – 2.5

4. FIRST AID MEASURES

4.1.1 INHALATION: Move patient to place with clean air. Ventilate. Obtain medical advice if irritation persists.

4.1.2 SKIN CONTACT: Remove contaminated clothing. Product may stain skin. Wash with water and soap. Obtain medical advice if irritation persists. An eyewash and safety shower should be readily available.

4.1.3 EYE CONTACT: Check for and remove any contact lenses. Flush opened eye (including under eyelids) with running water for 30 minutes. Do not allow person to rub eyes or keep eyes closed. Obtain medical advice if irritation persists. An eyewash and safety shower should be readily available.

4.1.4 INGESTION: Drink lots of water to dilute substance. Do not induce vomiting. Obtain medical advice if irritation persists.

4.1.5 Personal protective equipment (PPE) for first aid responders is recommended: Chemical resistant clothing, boots and gloves.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA: CO₂, Dry Chemicals, Foam, Water

NON-SUITABLE EXTINGUISHING MEDIA: Powder, hazards of dust cloud formation.

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid sparks and open flames. Heat may generate irritating or corrosive vapours.

5.3 SPECIAL FIREFIGHTING PROCEDURES: None. Use water spray to cool containers.

SPECIAL PROTECTIVE EQUIPMENT: Wear approved respirator, flame and chemical resistant clothing, boots and gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS: Ventilate site. Do not get into eyes, on skin, or clothing. Wear safety glasses or goggles, chemical resistant gloves, and apron when handling.

6.2 ENVIRONMENTAL PRECAUTIONS: Avoid any spillage from entering waterways, drains or sewage as product may contribute to biological oxygen demand (BOD) and chemical oxygen demand (COD).

6.3 METHODS FOR CLEAN UP: Clean up small quantities with a damp cloth. Standard absorbents can be used. Large spills can be pumped into closed containers for recovery and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Maintain good ventilation. Consistent with good hygiene and lab practices, wear safety glasses or goggles, gloves and apron when handling. Where aerosols are created use suitable dust mask or breathing apparatus. Avoid high temperatures and flames. 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

Keep container tightly sealed. Stainless steel or polyethylene containers are preferred. Keep in a dry cool dark place. High temperature storage accelerates product degradation. Incompatible with strong oxidizing agents. Avoid extended storage by using as soon as possible within designated shelf life.

7.3 Specific Uses

As a 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limit Values

Substance is classified as hazardous. This product poses no hazards under recommended conditions of handling and usage. If misused in its concentrated form, the product may be harmful to health as an irritant.

Control Parameters

Hazardous Substance Name: Potassium Hydroxide (KOH)

Exposure limits (OSHA) C: 2mg/m³

Exposure limits (ACGIH) C: 2mg/m³

8.2 Exposure Controls

VENTILATION AND OTHER ENGINEERING CONTROLS: Keep airborne concentration of product low by enclosing production processes whenever possible.

EYE: Wear face shield. An eyewash and safety shower should be readily available.

HAND: Wear protective gloves during manufacture or handling of this product.

SPECIAL CLOTHING: 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 with vapours during manufacture or handling.

OTHER PROTECTIVE DEVICES AND PROCEDURES: Follow good manufacturing practice.

RESPIRATORY: Use adequately protective respiratory equipment.

MEDICAL SURVEILLANCE RECOMMENDATION: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

APPEARANCE: Yellow-orange to orange liquid

ODOUR: Characteristic

ODOUR THRESHOLD: Not Established

pH: 7 – 13

MELTING POINT: Not established

BOILING POINT: >99°C (210°F)

FLASH POINT: >99°C (210°F)

FLAMMABILITY: Not established

EXPLOSIVE PROPERTIES: Not established

OXIDISING PROPERTIES: Not established

VAPOUR PRESSURE: Not established

RELATIVE DENSITY: 1.0 – 1.5

SOLUBILITY: Water

WATER SOLUBILITY: Soluble

PARTITION COEFFICIENT: Not established

VISCOSITY: Not established

VAPOUR DENSITY: Not established

EVAPORATION RATE: Not established

9.2 Other Information

MISCIBILITY: Not established

FAT SOLUBILITY (VEGETABLE OIL): Insoluble

CONDUCTIVITY: Not established

AUTO-IGNITION TEMPERATURE: Not established

DECOMPOSITION TEMPERATURE: Not Established

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable and non-reactive under normal conditions of use and storage.



10.2 Chemical Stability

This product is stable under normal storage conditions. May degrade in light. Avoid extended storage by using as soon as possible within designated shelf life.

10.3 Possibility of Hazardous Reactions

No risk.

10.4 Conditions to Avoid

May degrade in light. Avoid extended storage by using as soon as possible within designated shelf life. Do not freeze.

10.5 Incompatible Materials

Avoid strong acids, bases, and oxidising agents.

10.6 Hazardous Decomposition Products

No known hazardous materials produced in dangerous amounts upon decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Substance is classified as hazardous. This product poses no hazards under recommended conditions of handling and usage. If misused in its concentrated form, the product may be harmful to health as an irritant. Classification as a Category 2 Irritant is based on product pH and/or the results of dermal testing. Symptoms were reported to be very slight to well defined between 1 to 7 days of exposure and absent by day 14. Still, PPE should be used, and recommended first aid applied upon any exposure, to avoid risk of serious damage to respiratory system, skin and eyes from prolonged uninterrupted and untreated exposure.

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.

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

Product is biodegradable.

12.3 Bioaccumulative Potential

Product is not bioaccumulative as organisms metabolize it.

12.4 Mobility in Soil

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

12.5 Results of PBT and vPvB Assessment

Not Applicable.

12.6 Other Adverse Effects

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

13. DISPOSAL CONSIDERATIONS

13.1 Dispose of this product in accordance with Federal, State, County 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).

14. TRANSPORT INFORMATION

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).

15. REGULATORY INFORMATION

EUROPEAN UNION (EU): No Chemical Safety Assessment has been carried out for this substance. 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.

UNITED STATES OF AMERICA (USA): All ingredients contained in this product are approved for use according to 21 CFR § 73.30, a Regulation of the Food and Drug Administration, and conform to the specifications of the Food Chemical Codex (FCC).

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 FROM CURRENT AND REPUTABLE SOURCES. HOWEVER, THE DATA IS



PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS CORRECTNESS OR ACCURACY.

EUH 401: TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

THE INFORMATION CONTAINED IN THIS 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.

**SAFETY DATA SHEET PREPARED BY
D.D. WILLIAMSON SUPPORT CENTER, June, 2017
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.**