

BIO BASIC INC.
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MATERIAL SAFETY DATA SHEET
REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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DATE UPDATED: JANUARY 06, 2016

SECTION 1. ----- CHEMICAL IDENTIFICATION -----

Product Name Curcumin
Product Code(s) CB0346
Recommended Use For Laboratory Use Only
Not for Human or Animal Drug Use
Synonyms Natural Yellow 3, (E,E)-1,7-bis(4-Hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione, Diferuloylmethane, Diferuloylmethane

SECTION 2. ----- HAZARDS IDENTIFICATION -----

GHS - Classification

Classification Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3)

Signal Word Warning



Hazard Statements H319 - Causes serious eye irritation H315 - Causes skin irritation
H335- May cause respiratory irritation

Precautionary Statements P261: Avoid breathing dust/spray/ fume/gas/ mist/ vapors.
P264: wash skin thoroughly after handling P271: Use only outdoors or in well-ventilated area.
P405: Store locked up. P280: Wear protective gloves/eye & face protection
P302 + P352: If Swallowed: Call Poison Center or doctor/physician if you feel unwell
P304 + P340: If inhaled: remove 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 & easy to do so. Continue Rinsing.
P312: Call Poison Center or doctor/physician if you feel unwell
P321: Specific measures (see supplemental first aid instructions)
P332 + P313: If skin irritation occurs: consult physician P337+P313: If eye irritation occurs: consult physician

P362: Take off contaminated clothing and wash before reuse.
P403 + P233: Store in a well ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to an approved waste disposal plant.

HMIS Classification: Health hazard 2, Flammability 0, Physical hazards 0
NFPA Rating: Health hazard 2, Fire 0, Reactivity hazard 0

Potential Health Effects

Eye: Risk of serious damage to eyes.

Skin: Harmful in contact with skin.

Ingestion: Harmful if swallowed.

Inhalation: Harmful by inhalation.

SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Curcumin	-	Not available	458-37-7	95-100	-

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

Eyes: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin: Rinse with plenty of soap & water and seek medical advice.

Ingestion: Do not induce vomiting without medical advice. Rinse with water. Consult physician.

Inhalation: Move to fresh air. Consult a physician.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Special Hazards Arising: Carbon oxides

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

General Information: Use proper personal protective equipment as indicated in Section 8.

Spill/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Curcumin, 98+%(UV)	none listed	none listed	none listed

Personal Protective Equipment

Eyes: Wear chemical goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear a chemical apron.
Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Physical State: Powder
Flash Point: Not available
Auto-ignition Temperature: Not available.
Explosion Limits: Not available.
Vapor Pressure: Not available.
Vapor Density: 12.72 – (Air=1.0)
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available.
Melting Point: 175°C (347°F)
Solubility (in water): Not available.
Density: Not available.

SECTION 10. -----STABILITY AND REACTIVITY -----

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials:
Strong oxidizing agents.
Hazardous Decomposition Products:
see section 5

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

RTECS#: MI5230000
LD50/LC50: Oral, mouse & rat: LD50 = >2,000 mg/kg;
Carcinogenicity: CAS# 458-37-7: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA
Epidemiology: No information available.
Teratogenicity: No information available.
Mutagenicity: No data available.
Neurotoxicity: No information available.
Other Studies: Stomach irregularities based on human evidence.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Environmental Fate/Toxicity: No information available.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations
Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

SECTION 14. ----- TRANSPORT INFORMATION -----

DOT (US) Not dangerous goods
IMDG Not dangerous goods
IATA Not dangerous goods.

SECTION 15. ----- REGULATORY INFORMATION -----

SARA311/312: Acute Health Hazard, chronic health hazard.

Section 302 (RQ & TPQ) None of the chemicals in this material have an RQ or TPQ.

Section 313 No chemicals are reportable under Section 313.

STATE CAS# 458-37-7 is not present on state lists from CA, MN, MA, FL.

Pennsylvania Right to Know: 1,7-Bis(4-hydroxy-3-methoxyphenyl)hepta-1,6-diene-3,5-dione CAS#458-37-7

New Jersey Right to Know: 1,7-Bis(4-hydroxy-3-methoxyphenyl)hepta-1,6-diene-3,5-dione CAS#458-37-7

California Prop.65 components: None of the chemicals are known to cause cancer, birth defects, or any other reproductive harm.

EUROPEAN/INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

WGK (Water Danger/Protection) CAS# 458-37-7: No information available.

Canada - DSL/NDSL CAS# 458-37-7 is listed on Canada's DSL List.

Canada - WHMIS WHMIS: Not available.

Canadian Ingredient Disclosure List

SECTION 16. ----- OTHER INFORMATION -----

Issuing Date 13-Aug-2009
Revision Date 06-Jan-2016
Revision Note No information available.
Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS