

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Xanthophyll
 Product Number : 95507
 Brand : Fluka
 Company : Sigma-Aldrich Canada, Ltd
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 CANADA
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : α -Carotene-3,3'-diol
 Lutein
 β , ϵ -carotene
 β , ϵ -carotene-3,3'-diol
 Formula : $C_{40}H_{56}O_2$
 Molecular Weight : 568.87 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
β , ϵ -Carotene-3,3'-diol			
127-40-2	204-840-0	-	-

3. HAZARDS IDENTIFICATION

WHMIS Classification
 Not WHMIS controlled. Not WHMIS controlled.
HMIS Classification
 Health Hazard: 0
 Flammability: 0
 Physical hazards: 0

Potential Health Effects

Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
Skin : May be harmful if absorbed through skin. May cause skin irritation.
Eyes : May cause eye irritation.
Ingestion : May be harmful if swallowed.

4. FIRST AID MEASURES

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If inhaled
 If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact
 Wash off with soap and plenty of water.

In case of eye contact
 Flush eyes with water as a precaution.

If swallowed
 Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Flammable properties
 Flash point : no data available
 Ignition temperature : no data available
Suitable extinguishing media
 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
 Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
 Avoid dust formation.
Environmental precautions
 Do not let product enter drains.
Methods for cleaning up
 Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
 Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage
 Keep container tightly closed in a dry and well-ventilated place.
 Recommended storage temperature: -70 °C
 Keep in a dry place. Air and moisture sensitive. Light sensitive. Store under inert gas. Air sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.
Personal protective equipment
Respiratory protection
 Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
 For prolonged or repeated contact use protective gloves.

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Eye protection
 Safety glasses
Hygiene measures
 General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
 Form : powder
 Colour : dark red
Safety data
 pH : no data available
 Melting point : no data available
 Boiling point : no data available
 Flash point : no data available
 Ignition temperature : no data available
 Lower explosion limit : no data available
 Upper explosion limit : no data available
 Water solubility : no data available

10. STABILITY AND REACTIVITY

Storage stability
 Stable under recommended storage conditions.
Conditions to avoid
 Air sensitive.
Materials to avoid
 Strong oxidizing agents
Hazardous decomposition products
 Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity
 no data available
Irritation and corrosion
 no data available
Sensitisation
 no data available
Chronic exposure
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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Signs and Symptoms of Exposure
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Eyes : May cause eye irritation.
Ingestion : May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
 no data available
Ecotoxicity effects
 no data available
Further information on ecology
 no data available

13. DISPOSAL CONSIDERATIONS

Product
 Observe all federal, state, and local environmental regulations.
Contaminated packaging
 Dispose of as unused product.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

DSL Status
 This product contains the following DSLs listed on the Canadian NDLS list. All other components are on the Canadian DSL list.
 β , ϵ -Carotene-3,3'-diol CAS-No. 127-40-2

WHMIS Classification
 Not WHMIS controlled. Not WHMIS controlled.

16. OTHER INFORMATION

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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