



Section 1: Company Information

Company: Planta Analytica LLC
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Section 2: Chemical Identification

Batch #: PA 048-058-700

Compound Name: Lycopene

Section 3: Composition of the Substance

CAS #: 502-65-8

Molecular Formula: $C_{40}H_{56}$

Synonyms: All trans lycopene

EC #: 207-949-1

Section 4: Hazards Identification

Emergency Overview:

The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

P264. Wash hands thoroughly after handling.

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

P301, P312. If swallowed, call a poison control center / physician.

P330. Rinse mouth with water.

P501. Dispose of contents/container in accordance with local and national regulations.

For additional information on toxicity, please refer to section 12.

Section 5: First-Aid Measures

Oral Exposure:

Acute toxicity. **H302.** Harmful if swallowed.

If swallowed, wash out mouth with water, provided the person is conscious. Call a poison control center / physician.

Inhalation Exposure:

If inhaled, remove to fresh air. If not breathing, give artificial respirations. If breathing becomes difficult, give oxygen. Call a poison control center / physician.

Dermal Exposure:

In case of skin contact, immediately wash skin with soap and copious amounts of water. Call a poison control center / physician.

Eye Exposure:

In case of contact with eyes, flush with copious amounts of water for at least fifteen minutes. Assure adequate flushing by separating the eyelids with fingers. Call a poison control center / physician.

Section 6: Fire Fighting Measures:

Flash Point:

N/A

Autoignition Temperature:

N/A

Extinguishing Media:

Water spray, carbon dioxide, or dry chemical powder. Fight larger fires with water spray or chemical powder. Use extinguishing media suitable to the surrounding conditions.

Firefighting:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. May emit toxic fumes under fire conditions.

Exposure Hazard(s):

N/A

Section 7: Accidental Release Measures

Procedure in Case of Leak / Spill:

N/A

Procedure(s) of Personal Precaution(s):

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Wear protective equipment. Keep unprotected persons away.

Methods for Cleaning Up:

Pick up mechanically: sweep up, place in a bag, and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Prevent product from entering sewer system or any water course / drains. Dispose contaminated material as waste according to section 14.

Section 8: Handling and Storage

Handling:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure.

Storage:

Recommended storage temperature: 2-8 °C.

Keep in a dry and cool place in well-sealed receptacles. Store away from foodstuffs.

Special Requirements:

N/A



Section 9: Exposure Controls and Personal Protection

Engineering Controls:

Safety shower and eye flush station. Use only in a chemical, ventilated fume hood.

Personal Protection Equipment:

Respiratory:

Wear dust mask.

Hand:

Compatible chemical-resistant gloves.

Recommended material of gloves: nitrile rubber, NBR.

Eye:

Tightly sealed chemical safety goggles.

Body:

Protective work clothing.

General Hygiene Measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages, and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before and after handling.

Avoid contact with eyes and skin.

Wash contaminated clothing before reuse.

Section 10: Physical and Chemical Properties

Appearance:

Solid

Color:

No data available

Odor:

No data available

MATERIAL SAFETY DATA SHEET

Property	Value	At Temperature or Pressure
Molecular Weight	536.9 g/mol	
pH	N/A	
bp/bp Range	N/A	
mp/mp Range	172-172.5 C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion limits	Product does not present an explosion hazard.	
Flammability	Product is not flammable.	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

Section 11: Stability and Reactivity

Stability:

Stable under constant temperature. Refer to section 8 for storage conditions.

Avoid strong oxidizing agents and strong reducing agents.

Hazardous Decomposition Products:

No data available.

Hazardous Polymerization:

No data available



Section 12: Toxicological Information

Route of Exposure:

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through skin. Primary irritant effect is skin corrosion / irritation.

Eye Contact

May cause eye irritation.

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

Harmful if swallowed.

Oral LD50: 500 mg / kg (ATE)

Sensitization:

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Target Organ(s) or System(s):

N/A

Signs and Symptoms of Exposure:

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

Conditions Aggravated by Exposure:

N/A

Toxicity Data:

N/A

Irritation Data:

N/A

Chronic Exposure:

N/A



Section 13: Ecological information

Aquatic Toxicity:

Quantitative data concerned the ecological properties of the product are not available.

Mobility in Soil:

No further relevant information available.

Bio-accumulative Potential:

No further relevant information available.

Note:

Do not release into sewage systems, water courses, or soil.

Section 14: Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and a scrubber. Observe all federal, state, and local environmental regulations.

Must not be disposed together with household / general garbage.

Section 15: Transportation Information

DOT:

Proper Shipping Name – None.

This substance is considered non-hazardous for transport.

IATA:

This substance is considered non-hazardous for air transport.

Marine Pollutant:

N/A



Section 16: Regulatory Information

EU Additional Classification:

N/A

US Classification and Label Text:

N/A

United States Regulatory Information:

SARA – NO

TSCA – NO

Canada Regulatory Information:

WHMIS – This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR

DSL – No

NDSL – No

Section 17: Other Information

* For R&D use only. Not for drug, household, or other uses.

* The above information is believed to be true and 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 regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Planta Analytica LLC shall not be held liable for any damage resulting from handling or contact with the above product.

*Created 2/6/2023