

Safety Data Sheet: **Zeaxantin**

 Section 1. *Identification of the substance/mixture and of the Company*

Product identifiers			
Product name	<b>Zeaxantin</b>	Formula	<b>C<sub>40</sub>H<sub>56</sub>O<sub>2</sub></b>
Product Code	<b>ZEA</b>	RTECS	<b>FI0329850</b>
CAS #	<b>144-68-3</b>	Molecular weight	<b>568.9</b>
EC Number #	<b>205-636-4</b>	Mixture? Substance?	<b>Substance</b>
Intended uses of the substance or mixture and uses advised against			
Intended use		Uses advised against:	
<b>Only for Research and/or Development</b>		Not for drug, Not to be used in humans or animals. Not food additive	
Details of the supplier of the safety data sheet		Emergency Telephone number	
<b>FERMENTEK Ltd</b> 4 Yatziv street, POB 47120 Jerusalem 97800, <b>Israel</b>		Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	
This company is the manufacturer of the product, and the supplier of the safety data sheet		<b>Emergency Telephone number</b> For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887	
<b>Reach:</b> A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.			

 Section 2. *Hazards identification*

*This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).*

**Classification of the substance or mixture**
**GHS Classification:**

*Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)*

**GHS Label elements, including precautionary statements**

 Pictogram: **{None}** Signal word: **{Not classified}**
**Precautionary Statements**

 P264 Wash hands thoroughly after handling  
 P308+P313 IF exposed or concerned, get medical advice/attention

 Section 3. *Composition/information on ingredients*

Substance	
Substance name:	<b>Zeaxantin</b>
CAS Registry #:	<b>144-68-3</b> EC#: <b>205-636-4</b>
Molecular Formula:	<b>C<sub>40</sub>H<sub>56</sub>O<sub>2</sub></b>

	Concentration: $\leq 100\%$
<b>Mixture?</b>	<b>Substance</b>

## Section 4. *First Aid Measures*

### Description of First Aid Measures

<b>General advice:</b>	If deemed necessary, consult a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
<b>Eye contact:</b>	Flush with plenty of water.
<b>Skin Contact:</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion:</b>	Wash out mouth with water

### Most important symptoms and effects

<b>Skin contact</b>	There may be mild irritation at the site of contact
<b>Eye contact:</b>	
<b>Ingestion</b>	
<b>Self-protection of the first aider:</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
<b>Note to physicians</b>	Treat symptomatically

## Section 5. *Fire-fighting measures*

### Extinguishing media

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	None
<b>Hazardous combustion products</b>	Carbon oxides, Nitrogen oxides.
<b>Advice for firefighters</b>	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

## Section 6. *Accidental release measures*

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:** Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

## Section 7. *Handling and storage*

### Precautions for safe handling

**Advice on safe handling:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place.  
Keep out of the reach of children.  
Store at -20 °C, Protect from sunlight. Protect from moisture

Incompatible materials: None known based on information available.

**Section 8. Exposure Controls/Personal Protection**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the local regulatory bodies

OSHA Permissible Exposure Limits No Data Available  
NIOSH Recommended Exposure Limits No Data Available  
ACGIH Threshold Limit Values No Data Available

**Exposure controls**

*This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the local regulatory bodies.*

**Appropriate engineering controls**

Engineering Controls Showers, Eyewash stations, Ventilation systems. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

**Personal protective equipment**

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

*[PPE=Personal Protection Equipment]*

**PPE Eye/face protection** Wear safety glasses with side shields (or goggles).  
**PPE Skin and Body Protection** Wear protective gloves and protective clothing.  
**PPE Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Section 9. Physical and chemical properties**

**Physical / chemical properties**

Physical State at room temperature	Solid / powder
Color	red
Melting/freezing point	

No further safety relevant data are available

**Section 10. Stability and reactivity**

**Reactivity:** No information available.  
**Chemical stability:** Stable under normal conditions.  
**Conditions to avoid** Heat, flames and sparks. Direct Sunlight.  
**Incompatible materials** Strong reducers and oxidizers  
**Possibility of Hazardous Reactions** None under normal processing

Hazardous decomposition products: Carbon oxides, Nitrogen oxides

## Section 11. Toxicological information

Information on toxicological effects

**The toxicological effects of this product have not been thoroughly studied.**

Acute Toxicity	
Ingestion	Oral, Rodent(Mouse), LD50>2000 mg/kg.
Inhalation	No data available
Serious eye damage/eye irritation:	No data available
Skin corrosion/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Reproductive toxicity / Teratogenicity:	No data available
Aspiration hazard:	No data available
Additional information:	RTECS: <b>F10329850</b>

## Section 12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

## Section 13. Disposal Considerations

Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

## Section 14. Transport information

**UN number, Proper Shipping Name, Transport Hazard Class, packing group**

	US DOT	ADR/RID:	IMDG:	IATA
UN Number	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>	<i>Not regulated</i>
UN proper shipping name	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>
Transport Hazard Class & Packing Group	<i>Not regulated</i> <i>Not dangerous goods</i>	<i>Not regulated</i> <i>Not dangerous goods</i>	<i>Not regulated</i> <i>Not dangerous goods</i>	<i>Not regulated</i> <i>Not dangerous goods</i>

## Section 15. Regulatory information

Safety, health and environmental regulations/legislation	
USA EPA / TSCA	This product is not listed on the USA EPA TSCA / "For research"
EU ECHA Status	This product is registered with the EU ECHA under # <b>205-636-4</b> <b>C&amp;L : Listed</b> <b>Annex III : listed.</b> <b>Reach: Preregistered</b>
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

## Section 16. *Other information*

Date of revision: 2 August, 2020

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of SDS

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