



# SAFETY DATA SHEET

## PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: INTENSIFY LIQUID  
 ACTIVE: **S-ABSCISIC ACID 50g/L**  
 REGISTRATION HOLDER: HARVEST CROP SOLUTIONS (PTY) LTD.  
 DISTRIBUTOR: HARVEST CHEMICALS (PTY) LTD.  
 ADDRESS: 25 DAN PIENAAR ROAD  
 KLOOF, KWAZULU-NATAL  
 3610  
 REPUBLIC OF SOUTH AFRICA  
 CONTACT NUMBER: +27 (0) 31 764 6315  
 EMERGENCY NUMBER: +27 (0) 82 442 1134

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### 1. CHEMICAL PRODUCT

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**Common Name:** S-Abscisic Acid (50 g/ℓ SL)

**Molecular weight:** 264.3

**Chemical Name:** (2Z,4E)-5-((1S)-hydroxy-2,6,6-trimethyl-4-oxo-2-cyclohexen-1-yl)-3-methyl-2,4-pentadienoic acid (IUPAC)

**Chemical group:** Pyrazolone

**CAS No.:** 21293-29-8

**Molecular Formula:** C<sub>15</sub>H<sub>20</sub>O<sub>4</sub>

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Components Material	CAS Number	Content
S-Abscisic acid	21293-29-8	50.0g/ℓ
Inert ingredients	.....	UP TO 1 litre

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### 3. HAZARDS IDENTIFICATION

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**Emergency Overview:** Avoid contact and inhalation.

**Routes of Entry:** Inhalation, skin, eyes, ingestion and injection.

**Health Hazards (Acute and Chronic):** Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been fully evaluated.

**Signs and Symptoms of Exposure:** No data available.

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### 4. FIRST AID MEASURES

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#### Emergency and first aid measures

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

**Swallow:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. DO NOT induce vomiting unless directed to do so by medical personnel.

**Eye contact:** Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

**Skin contact:** Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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### 5. FIRE FIGHTING MEASURES

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**Special Fire Fighting Procedures:** As in any fire, wear an approved, self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

**Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

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### 6. ACCIDENTAL RELEASE MEASURES

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#### Steps to be taken in case material is released or spilled:

- Avoid release into the environment.
- Avoid raising and breathing dust and provide adequate ventilation.
- As conditions warrant, wear an approved self-contained breather apparatus or respirator, and appropriate personal protection (rubber boots, safety goggles and heavy rubber gloves).

Transfer to a proper chemical waste container for disposal.

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## 7. HANDLING AND STORAGE

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**Hazard Label Information:** Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

**Precautions to be taken in Handling:** Avoid breathing (vapour, mist). Avoid prolonged or repeated exposure.

**Precautions to Be Taken in Storing:** Keep tightly closed. Store at ambient temperature.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Protective Equipment Summary-Hazard Label Information:

- Compatible chemical resistant gloves
- Eye wash station in work area
- Lab coat
- Safety glasses
- Safety shower in work area
- Vent Hood

**Respiratory Equipment:** An approved respirator, as conditions warrant.

**Eye protection:** Safety glasses.

**Protective Gloves:** Compatible chemical resistant gloves.

**Other Protective Clothing:** Lab coat.

**Ventilation:** Use process enclosures, local exhaust ventilation, or other engineering.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Physical state:** Liquid

**Colour:** Clear to slightly yellow

**Odour:** No discernible odour

**Melting point:** Not applicable

**Flammability:** Non flammable

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## 10. STABILITY AND REACTIVITY

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**Stability:** stable under normal conditions.

**Condition to avoid:** keep cool. Protect from sunlight and moisture.

**Incompatibility-Materials to avoid:** Strong oxidizing agents

**Hazardous Decomposition or by-product:** Carbon dioxide, carbon monoxide.

**Possibility of Hazardous Reactions:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Acute oral LD<sub>50</sub>:** >5000 mg/kg in rats.

**Acute Dermal LD<sub>50</sub>:** >5000 mg/kg in rats.

**Inhalation LC<sub>50</sub>:** (4 hour): 5130mg/m<sup>3</sup> in rats

**Skin irritation:** It is not a skin irritant in rabbits.

**Eye irritation:** It is a weak/slight eye irritant in rabbits.

**Sensitization (guinea pig):** It is not a skin sensitizer in guinea pigs.

**Mutagenicity:** Non mutagenic.

**Developmental/Reproductive effects:** Not toxic for reproduction.

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## 12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

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Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

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## 13. DISPOSAL CONSIDERATIONS

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### Waste treatment methods

**General:** Avoid release to the environment.

**Special precautions:** When not empty dispose of this at hazardous or special waste collection point.

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## 14. TRANSPORT INFORMATION

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### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name:** Not dangerous goods.

### LAND TRANSPORT (European ADR/RID)

**ADR/RID Shipping Name:** Not dangerous goods. AIR TRANSPORT (ICAO/IATA)

**ICAO/IATA Shipping Name:** Not dangerous goods.

**Additional Transport Information:** Transport in accordance with local, state and federal regulations.

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## 15. REGULATORY INFORMATION

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**European Community Hazard Symbol codes:** Not data available.

**European Community Risk and Safety Phrases:**

S24/25-Avoid contact with skin and eyes.

S37/39-Wear suitable gloves and eye/face protection.

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## **16. OTHER INFORMATION**

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This MSDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.