

# SAFETY DATA SHEET ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

## INTELI-PHITE 0:2:3 (25)

Revised on / Version: 28/4/2020 / 0005  
Replaces revision of / Version: 1/8/2019 / 0004


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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifier**  
**Product Name** : Inteli-Phite 0:2:3 (25)  
**Product description** : Clear Soluble Concentrate fertiliser  
**Product Type** : Soluble Concentrate
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Relevant uses: Systemic water-soluble liquid fertiliser  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet**  
Rolfes Agri (Pty) Ltd  
288 Mundt Street  
Waltloo  
Pretoria  
South Africa  
Tel: +27(0)12 803 0145  
Fax: +27(0)12 803 8418
- 1.4 Emergency telephone number**  
**National advisory body/Poison Centre**  
**Telephone number** : SOUTH AFRICA  
Griffon Poison Information Centre  
(24 Hour Poisoning Emergency Helpline)  
+27(0)82 446 8946



**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) no 1272/2008:**  
 Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.
- Eye Irr. 2: Eye Irritation, Category 2 - H319
- 2.2 Label elements**  
**CLP Regulation (EC) no 1272/2008:**
- Hazard pictogram(s):**
- 
- Signal word** : Warning  
**Hazard statement(s)** : H319 – Causes serious eye irritation
- Precautionary statement(s) :**  
 P101 - If medical advice is needed, have product container or label at hand.  
 P102 - Keep out of reach of children.  
 P103 - Read label before use.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+ P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.
- 2.3 Other hazards**  
 Non-applicable

**SECTION 3: Composition/information on ingredients**

- 3.1 Substance:**  
 Non-applicable
- 3.2 Mixture:**  
**Chemical description:**
- |            |     |          |           |
|------------|-----|----------|-----------|
| Phosphorus | (P) | 98 g/kg  | (131 g/l) |
| Potassium  | (K) | 160 g/kg | (214 g/l) |

**SECTION 4: First Aid Measures****4.1 Description of first aid measures**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Obtain medical advice if necessary.

**By skin contact:**

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

**By eye contact:**

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove any contact lenses after 5 minutes. Get medical attention if necessary.

**By ingestion / aspiration:**

Have victim rinse mouth thoroughly with water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** : None.  
**Specific treatments** : Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1 Fire Extinguishing Media**

**Suitable extinguishing media:**

Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for firefighting for later disposal.

**Unsuitable extinguishing media:**

None known

**5.2 Special hazards arising from the substance or mixture**

None known

**5.3 Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Ventilate area of leak or spill. Wear appropriate personal protective equipment, refer to Section 8.

**6.2 Environmental precautions:**

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours, if any. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

**6.3 Methods and materials for containment and cleaning up**

**Spills:**

Absorb with sand or other non-combustible absorbent material and put in a suitable container for reclamation or disposal.

**Large Spills:**

Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

**6.4 Reference to other sections:**

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling:**

Precautions for safe manipulation  
Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use

**7.3 Specific end use(s)**

Use as directed. Use original container.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

**8.2 Exposure controls**

**Appropriate engineering controls:**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures**

**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Eye/face protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

**Skin protection**

**Hand protection:**

Protective gloves against minor risks.

**Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:**

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

For complete information, please refer to product datasheet.

**Appearance**

Physical state	: Liquid Soluble Concentrate)
Colour	: Clear (Colourless)
Odour	: Faint characteristic odour

**Volatility:**

Boiling point at atmospheric pressure	: Non-applicable *
Vapour pressure at 20 °C	: Non-applicable *
Vapour pressure at 50 °C	: Non-applicable *
Evaporation rate at 20 °C	: Non-applicable *

**Product description:**

Density at 20 °C	: 1.42 ± 0.05 g/m <sup>3</sup>
Relative density at 20 °C	: Non-applicable *
Dynamic viscosity at 20 °C	: Non-applicable *
Kinematic viscosity at 20 °C	: Non-applicable *
Kinematic viscosity at 40 °C	: Non-applicable *
pH	: 5.5 – 6.5
Vapour density at 20 °C	: Non-applicable *
Partition coefficient n-octanol/water 20 °C	: Non-applicable *
Solubility in water at 20 °C	: Completely soluble in water.
Solubility properties	: Non-applicable *
Decomposition temperature	: Non-applicable *
Melting point/freezing point	: Non-applicable *
Explosive properties	: No explosive properties
Oxidising properties	: Non-applicable *

**Flammability:**

Flash Point	: Non Flammable
Autoignition temperature	: Non-applicable *
Lower flammability limit	: Non-applicable *
Upper flammability limit	: Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**9.2 Other information**

No additional information.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity:**  
No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.
- 10.2 Chemical stability:**  
Chemically stable under the conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions:**  
None known
- 10.4 Conditions to avoid:**  
None known
- 10.5 Incompatible materials:**  
None known
- 10.6 Hazardous decomposition products:**  
None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

LD50 Oral (Rat): > 1895 mg/kg  
LD50 Dermal (Rat): > 2000 mg/kg  
LC50 Inhalation (Rat) (4hr): No data available.

#### **Dangerous health implications:**

Moderately toxic upon acute oral exposure and poses very little if any risk to human health. The usual routes by which humans receive toxic exposure are through skin or eye contact, as well as by inhalation of powders and dusts.

#### A.- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. Refer to Section 2.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

#### B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2
- Contact with the eyes: Based on available data, the classification criteria are met, as it does contain substances classified as dangerous for this effect. Refer to Section 2.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**Other information:**

No information available.

## SECTION 12: Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

**12.1 Toxicity:**

Birds: Practically not toxic to birds.  
Fish: Practically not toxic to freshwater fish.  
Daphnia: Slightly toxic to invertebrates.  
Bees: Practically not toxic to bees.

**12.2 Persistence and degradability:**

No data available.

**12.3 Bioaccumulative potential:**

Not bioaccumulative.

**12.4 Mobility in soil:**

Not data available.

**12.5 Results of PBT and vPvB assessment:**

Non-applicable.

**12.6 Other adverse effects:**

No data available.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Product**

**Methods of disposal:**

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

**Packaging****Methods of disposal:**

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Inland waterway transport (AND/ADNR)	Sea Transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
<b>14.1 UN Number</b>	Not required	Not required	Not required	Not required
<b>14.2 UN proper shipping name</b>	Not required	Not required	Not required	Not required
<b>14.3 Transport hazard class(es)</b>	Not required	Not required	Not required	Not required
<b>14.4 Packing group</b>	Not required	Not required	Not required	Not required
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>14.6 Special precautions for user</b>	Not known	Not known	Not known	Not known
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Not required	Not required	Not required	Not required

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:**

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

**Other National regulations:**

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008

**15.2 Chemical Safety Assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: Other information****Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Non-applicable



**Texts of the legislative phrases mentioned in section 2:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

**Texts of the legislative phrases mentioned in section 3:** Non-applicable

**CLP Regulation (EC) n° 1272/2008:** Eye Irr. 2: Eye Irritation, Category 2 - H319

**Classification procedure:** Non-applicable

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Relevant P-, H- and EUH-phrases (number and full text)**

H319 – Causes serious eye irritation

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+ P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment.

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol–water partition coefficient

KOC: PARTITION COEFFICIENT OF ORGANIC CARBON

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**Notice to reader**

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