



SAFETY DATA SHEET

Page : 1 / 5

Date: 02 / 05 / 2017

OPEX TOTAL

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

Identification of the product : Opex Total

Type of product : Fertilizer.

Use : Agriculture.

Company identification : Opex Holding (Pvt) Ltd
No. 74, Union Place, Colombo 2, Sri Lanka
Tel: +94 11 5545505 Fax: +94 11 2303842
Web: opexholding.com

SECTION 2 Hazards identification

Symptoms relating to use

- Inhalation : This product is not hazardous.

- Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.

- Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

- Ingestion : Ingestion unlikely. No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

SECTION 3 Composition/information on ingredients

Nitrogen	N
Potassium	K ₂ O
Phosphorous	P ₂ O ₅
Magnesium	Mg
Boron	B
Zinc	Zn
Manganese	Mn
Sulphur	S
Copper	Cu

SECTION 4 First aid measures

First aid measures

- Inhalation : Assure fresh air breathing.

- Skin contact : Wash skin with mild soap and water.

- Eye contact : Rinse immediately with plenty of water.

- Ingestion : If person is conscious, rinse mouth thoroughly with water immediately and give water or milk to drink. DO NOT induce vomiting. Seek medical assistance, if more than a small quantity has been swallowed, or if there is pain, or difficulty with swallowing.



SAFETY DATA SHEET

Page : 2 / 5

Date: 02 / 05 / 2017

OPEX TOTAL

SECTION 5 Firefighting measures

Flammability Conditions	: Non flammable and does not support combustion.
Extinguishing Media	: Extinguish fires with a large amount of water.
Personal Protective Equipment	: No Data Available
Flash Point	: No Data Available
Lower Explosion Limit	: No Data Available
Upper Explosion Limit	: No Data Available
Auto Ignition Temperature	: No Data Available
Hazchem Code	: No Data Available

SECTION 6 Accidental release measures

Personal precautions	: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Clean up methods	: Collect spills and put it into appropriated container.

SECTION 7 Handling and storage

General	: Handle in accordance with good industrial hygiene and safety procedures.
Personal protection	: Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.
Technical protective measures	: Both local exhaust and general room ventilation are usually required.
Storage	: Keep only in the original container in a cool, well ventilated place. Store away from heat/ moisture. Prevent contamination by irrelevant materials. Avoid : Reducing agents, alkalis, finely divided metals. Strong acids. Oxidizing agent.
Handling	: Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

SECTION 8 Exposure controls/personal protection

Personal protection	
- Respiratory protection	: Wear approved mask. No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- Hand protection	: Gloves.
- Skin protection	: No special clothing/skin protection equipment is recommended under normal conditions of use.
- Eye protection	: Even though no specific eye irritation data is available, wear eye protection appropriate to conditions of use when handling this material.
- Ingestion	: When using, do not eat, drink or smoke.
Industrial hygiene	: Provide local exhaust or general room ventilation.



SAFETY DATA SHEET

Page : 3 / 5

Date: 02 / 05 / 2017

OPEX TOTAL

SECTION 9 Physical and chemical properties

Physical State	: Liquid
Appearance	: Purple Liquid
Odour	: Slight Pungent Odour
Colour	: Purple Liquid
pH of 5% solution	: Acidic
Vapour Pressure	: Does not exert significant vapour pressure.
Relative Vapour Density	: No Data Available
Boiling/Melting Point	: >100 C
Freezing Point	: No Data Available
Evaporation Rate	: No Data Available
Solubility	: Miscible in all proportions with water.
Specific Gravity	: Extremely High
Volatile Percent	: No Data Available
Flammability	: Not Flammable
Flash Point	: Not relevant, does not give off flammable vapours.
Auto Ignition Temp	: No Data Available

SECTION 10 Stability and reactivity

Stability and reactivity	: Stable under normal conditions.
Hazardous reactions	: None under normal conditions.
Materials to avoid	: Strong acids. Oxidizing agent. Reducing agents, alkalis, finely divided metals. - organic materials
Conditions to avoid	: Heat. Open flame. Prevent contamination by irrelevant materials.

SECTION 11 Toxicological information

General Information	: Opex Total Liquid Fertiliser has low toxicity. Use safe work practices to avoid eye or skin contact and mist inhalation. Prolonged or repeated exposure may cause drying of the skin with cracking and irritation that may lead to dermatitis.
Target Organs	: Respiratory system, eyes and skin. Routes of Entry Ingestion or Inhalation.
Eye Irritant	: May cause irritation, redness and pain following contact.
Ingestion	: Presents moderate toxicity, unless large amounts are ingested. Large amounts give rise to gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhoea. Large amounts may also cause dilation of blood vessels by direct smooth muscle relaxation and methaemoglobinaemia (excessive conversion of haemoglobin to methaemoglobin, which is incapable of binding and carrying oxygen - methaemoglobin is formed when iron in the haem molecule is oxidised from the ferrous to the ferric state). Symptoms include dizziness, abdominal pain, vomiting, bloody diarrhoea, weakness convulsions and collapse.



SAFETY DATA SHEET

Page : 4 / 5

Date: 02 / 05 / 2017

OPEX TOTAL

- Inhalation** : High mist concentration of air-borne material may cause irritation to the nose and upper respiratory tract. Symptoms may include coughing and sore throat. Prolonged exposure may be harmful.
- Skin Irritant** : Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin contact have been reported.

SECTION 12 Ecological information

- Environment** : It is not anticipated to cause any adverse effects to plants or animals.

SECTION 13 Disposal considerations

- Disposal Methods And Containers** : Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.
: Contact the manufacturer if additional information is required.
- Legislation** : Dispose of in accordance with relevant local legislation.

SECTION 14 Transport information

- General information** : Not regulated.
- Land transport** : Not regulated.
- Sea transport** : Not regulated.
- Air transport** : Not regulated.

SECTION 15 Regulatory information

- ERMA Approval Code** : N/A
- HSNO Hazard Classification** : N/A
- NZ Toxic Substance** : N/A
- AICS Name** : N/A
- EPG** : N/A
- Poisons Schedule** : N/A

SECTION 16 Other information

NOHSC National Occupational Health and Safety Commission

SUSDP Standard for the Uniform Scheduling of Drugs and Poisons

ACGIH American Conference of Government Industrial Hygienists

ES-TWA Exposure Standard – Time weighted average

ES-STEL Exposure Standard – Short term exposure level

ES-Peak Exposure Standard – Peak level

LD Lo The lowest dose in an animal study in which lethality occurred

LD50 Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation

OPEX TOTAL

TD Lo The lowest dose of a substance known to have produced signs of toxicity

TC Lo Lowest published toxic concentration

LC Lo Lowest published lethal concentration

LC 50 Lethal concentration that kills 50% of an animal population within a specified time

t/m3 Tonnes per cubic metre

mg/m3 Milligrams per cubic metre

mg/kg Milligrams per kilogram

g/l Grams per litre

w/v% weight per volume percentage

w/w% weight per weight percentage

SG Specific Gravity

pH relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

DISCLAIMER

As the use of the products described in this document is outside the control of Opex Holding (Pvt) Ltd. we make no representation or warranty concerning the suitability or fitness of those products for any purpose, it is your sole responsibility to ensure that the products will have the qualities and attributes that will make them fit for any ordinary or special purpose required of them, even if that purpose is made known to us at any time. This includes responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the products and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose.

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