

**OPEX CALSEEN****SECTION 1 Identification of substance/mixture and of the company/undertaking**

Identification of the Product : Opex Calseen
Type of product : Liquid Fertilizer
Use : Agriculture
Company identification : Opex Holding (Pvt) Ltd.
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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

N
CaO
MgO
B

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

**OPEX CALSEEN****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 with adequate ventilation |
| - Hand protection | : | Gloves |
| - Skin protection | : | No special clothing/skin protection equipment is recommended under normal conditions of use |

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- 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 : Provide local exhaust or general room ventilation

SECTION 9 Physical and chemical properties

- Physical state : Liquid
- Appearance : Blue Liquid
- Odour : Slight Pungent Odour
- Colour : Blue 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 vapour
- 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 C-Real Liquid Fertilizer 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

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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

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
See 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 to 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

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| | |
|--------------|---|
| LD Lo | The lowest dose to 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 |
| 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 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 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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