



# SUNFARM AGROCHEMICALS LTD

ADD.: XIAOMIAO TOWN, SHUSHAN DISTRICT, HEFEI, ANHUI, CHINA  
WWW.SUNFARMCHEM.COM SUNFARMAGRO@YAHOO.COM +86-15986675013

## Material Safety Data Sheet

(In accordance with 2001/58/EC)

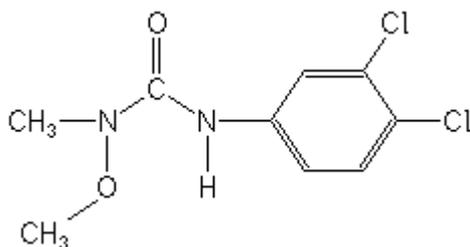
### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **LINURON 50%WP**

CAS No.: **330-55-2**

Empirical formula: **C<sub>9</sub>H<sub>10</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub>**

Structural formula:



Product use: **HERBICIDE**

Molecular weight: **249.0934**

Chemical Formulation: **WETTABLE POWDER**

Supplier: **SUNFARM AGROCHEMICALS LIMITED**

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition	Content (g/Kg)	CAS number
LINURON (ISO)	50%	330-55-2

### SECTION 3: HAZARDS IDENTIFICATION

This product is considered to be hazardous and contains hazardous components.

#### Physicochemical effects

**Adverse human health effects:** Limited evidence of a carcinogenic effect.

May cause birth defects. Possible risk of impaired fertility.

**Harmful:** danger of serious damage to health by prolonged exposure if swallowed.

**Environmental hazard:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Ingestion:** Slightly toxic based on toxicity studies.

**Inhalation:** May cause irritation.

### SECTION 4: FIRST AID MEASURES

- **Inhalation:** Remove victim to fresh air. If breathing is difficult, give oxygen.

Allow the victim to rest. Seek medical advice.

- **Skin contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.

- **Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- **Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth. Seek medical advice (show the label where possible).

**Note to physician:** No specific antidote known. Treat symptomatically.



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## SECTION 5: FIRE FIGHTING MEASURES

### Extinguishing media

- **Suitable:** water spray, powder, carbon dioxide, foam

**Special exposure hazards:** High temperature may liberate toxic gases.

(Carbon dioxide, nitrogen oxides), Hydrogen chloride.

**Special procedures:** Use self-contained breathing apparatus when in close proximity to fire.

Protect container with water spray. Avoid (reject) fire-fighting water to enter environment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear recommended personal protective equipment. Good ventilation of the workplace required.

**Environmental precautions:** Avoid release to the environment. Prevent entry to sewers and public waters.

**After spillage and/or leakage:** Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## SECTION 7: HANDLING AND STORAGE

### Handling / Hygiene measures:

When using, do not eat, drink or smoke.

Handle in accordance with good industrial hygiene and safety practice.

Wash hands thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove soiled clothing immediately and clean thoroughly before using again.

### Storage:

#### Requirements for storage areas and containers

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing.

**Advice on common storage:** Keep away from food, drink and animal feeding stuffs.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protection

- **Respiratory protection:** Approved dust respirator.

- **Hand protection:** Wear suitable gloves resistant to chemical penetration.

- **Skin protection:** Wear suitable protective clothing

- **Eye protection:** Safety glasses. Or Face shield.

**Industrial hygiene:** When using, do not eat, drink or smoke. Wash clothing before re-using. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Avoid all unnecessary exposure.

**Exposure controls:** Linuron, Not established.

## SECTION 9: PHYSICAL PROPERTIES

### Appearance

Form: Powder



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Color: White to Off-white  
Odor: Slight odor

## Safety data

Ph: 7 - 9 (10% solution) (23°C)  
Flash Point: Do not flash  
Ignition temperature: Non-flammable  
Bulk density: 290 kg/m<sup>3</sup> at 20°C  
Solubility in water: Dispersible  
Flash point [°C]: Not flammable.  
Auto-ignition temperature [°C]: > 240  
Explosive properties: Not explosive.

**Stability:** Stable for at least 2 years under normal storage and usage conditions

## SECTION 10: STABILITY AND REACTIVITY

Stability: stable under normal conditions.  
Hazardous decomposition products: chlorine compounds, nitrogen oxides  
Hazardous reactions: decomposes above 180°C  
Materials to avoid: acids, alkali, oxidizing agents  
Conditions to avoid: direct sunlight, Protect from freezing.

## SECTION 11: TOXICOLOGICAL INFORMATION

Ingestion (oral): Practically non-toxic (rat LD<sub>50</sub> > 2500 mg/kg)  
Skin (dermal): Practically non-toxic (rabbit LD<sub>50</sub> > 4000 mg/kg)  
Inhalation: LC<sub>50</sub> (4h) > 4.79 mg/L for rats  
Eye irritation: Slight irritating to eyes  
Skin irritation: Non-irritating to rabbit skin.  
Sensitization: Not a skin sensitizer (Guinea pigs)

## SECTION 12: ECOLOGICAL INFORMATION

Fish: LC<sub>50</sub> (96h) = 3.15 mg/l (Oncorhynchus mykiss), NOEC(21 days) = 0.1 mg/l (Oncorhynchus mykiss)  
Daphnia magna: EC<sub>50</sub> (24h) = 0.31 mg/l, NOEC (21 days) = 0.18 mg/l  
Algae: EC<sub>50</sub> (72h) = 0.016 mg/l  
Bees: Contact LD<sub>50</sub> > 1600µg/ bee, Oral. LD<sub>50</sub> > 160µg/ bee  
Birds (Bobwhite quail), LD<sub>50</sub> = 314 mg/kg, LC<sub>50</sub> = 1250 ppm

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations.  
Dispose of this material and its container at hazardous or special waste collection point.

## SECTION 14: TRANSPORT INFORMATION

Proper shipping name: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (



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Linuron), 9, III

UN Number: 3077, Sea transport: - Class: 9; Packing group: III;

Hazard Label(s):



## SECTION 15: REGULATORY INFORMATION

**Symbol(s):** Harmful. Dangerous for the environment.

**R Phrase(s):**

R40 - Limited evidence of a carcinogenic effect.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 - Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.

**S Phrase(s):**

S02 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using, do not eat, drink or smoke.

S24/25 - Avoid contact with skin and eyes.

S36/37 - Wear suitable protective clothing and gloves.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.



## SECTION 16: OTHER INFORMATION

This MSDS summarizes best knowledge of the health and safety hazard information of the 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.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. ----End of MSDS

For and on behalf of  
SUNFARM AGROCHEMICALS LTD.