



Material Safety Data Sheet

According to EC Directive 2001/58/EC

Print date: 07-Nov-2007

Revision Number: 2

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance or preparation

MSDS Ref. No.: 2905.03.01
Product name: Solinure 20+20+20
Synonyms: Solinure 20+8.8+16.6

Use of the Substance/Preparation

Recommended use: Water soluble fertilizer.

Company/Undertaking Identification

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Potassium nitrate, KNO ₃	7757-79-1	> 25%	231-818-8	O;R08
Sodium molybdate, Na ₂ MoO ₄ +2H ₂ O	7631-95-0	< 1%	231-298-2	NE

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

3. HAZARDS IDENTIFICATION

Classification

The product is non-dangerous in accordance with Directive 1999/45/EC

Most important hazards

None

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4. FIRST AID MEASURES

General advice:	Check the victim's state of consciousness, breathing and pulse; put in emergency position or revive.
Ingestion:	Possible symptoms are nausea and/or vomiting. Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation:	Possible symptoms are coughing and/or dyspnoea. If not breathing, give artificial respiration. If symptoms persist, call a physician.
Skin contact:	If skin irritation persists, call a physician.
Eye contact:	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area.

Unsuitable extinguishing media:

Not applicable

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Danger of toxic gases in smoke in case of fire.

Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Wear personal protective equipment.

Environmental precautions:

Prevent product from entering drains. Do not contaminate surface water.

Methods for cleaning up:

Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air. Prevent product from entering drains.

7. HANDLING AND STORAGE

Handling:**Technical measures/precautions:**

Provide appropriate exhaust ventilation at places where dust is formed.

Safe handling advice:

Avoid dust formation. Avoid contact with skin and eyes.

Storage:

Technical measures/storage conditions:

Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. Keep at temperatures between 0 °C and 40 °C .

Incompatible products:

No information available

Specific use(s):

Water soluble fertilizer.

Packaging material:

Plastic bags

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls**Personal protective equipment****Respiratory protection:**

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection:

Pvc disposable gloves.

Eye/face protection

Safety glasses.

Skin and body protection:

Wear suitable protective clothing.

Hygiene measures

Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Exposure limit values**Environmental exposure controls**

Prevent product from entering drains.

Sodium molybdate, Na₂MoO₄·2H₂O

Belgium - 8 Hr VLE

5 mg/m³ TWA

Czech Republic OEL

= 5 mg/m³ TWA

Finland - Occupational Exposure Limits - 8 hour

6 mg/m³

France - Valeurs Limites d'exposition (VLE)

5 mg/m³

France INRS (VME)

5 mg/m³ VME

Netherlands - OEL - MACs:

5 mg/m³ MAC

Norway - 8 h:

5 mg/m³ TWA

Portugal - TWAs

0.5 mg/m³ TWA

Spain - Valores Limite Ambientales - VLE

5 mg/m³ VLA-ED

Sweden - OEL - 8 Hour

10 mg/m³ LLV

5 mg/m³ LLV

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information**Physical State:**

Solid

Appearance:

Powder

Color: Off-white
Odor: No information available

Important Health Safety and Environmental Information

Bulk density: 800 - 1200 kg/m³
Solubility: Completely soluble in water
Water solubility: 35 kg/100L

Other information

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition. Burning produces obnoxious and toxic fumes.

Materials to avoid: Combustible material.

Hazardous decomposition products: No decomposition if stored normally
Thermal decomposition can lead to release of irritating gases and vapours

11. TOXICOLOGICAL INFORMATION

Component information

Potassium nitrate, KNO₃
LD₅₀/oral/rat = 3750mg/kg

Sodium molybdate, Na₂MoO₄+2H₂O
LD₅₀/oral/rat = 4000 mg/kg

Product information

Local effects

Skin effects: May cause skin irritation in susceptible persons

Eye effects: May cause eye irritation with susceptible persons

Inhalation: May cause sensitization by inhalation

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

12. ECOLOGICAL INFORMATION

Product information

Water Endangering Class (WGK): 1 (Scotts classification)

Component information

Sodium molybdate, Na₂MoO₄·2H₂O

Ecotoxicity effects

LC50/96h/rainbow trout => 2800 g/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Use up product completely. Packaging material is industrial waste

Contaminated packaging: Empty containers can be landfilled, when in compliance with the local regulations

14. TRANSPORT INFORMATION

Product information

Physical State: Solid

ADR/RID

UN-No: Not classified for transport

IATA

UN-No: Not classified for transport

IMO / IMDG

UN-No: Not classified for transport

15. REGULATORY INFORMATION

Indication of danger:

This product does not have to be classified according to the EU regulations.

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2

R 8 - Contact with combustible material may cause fire.

16. OTHER INFORMATION

R36/37/38 - Irritating to eyes, respiratory system and skin.

Reason for revision:

*** Indicates changes since the last revision. This version replaces all previous versions

Prepared by:

Regulatory Affairs Department.

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End of Safety Data Sheet