

SAFETY DATA SHEET

Linuron 500 SC

 Revision Date
 25-May-2015
 Version
 1
 Product No
 HRB00893-S

 Publish Date
 25-May-2015
 H-0035-20195-RAII / 20195 / AG-L2-500 SC

Product identifier

Linuron 500 SC

Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA Agan Ltd

P.O.B. 262 ASHDOD Israel

For further information, please contact

Email address SDS@ADAMA.COM

Emergency Telephone

Emergency Telephone +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

Section 2: HAZARD IDENTIFICATION

Classification of the substance or mixture

Carcinogenicity Category 2 - (H351)
Reproductive toxicity Category 1B - (H360Df)
Specific target organ toxicity (repeated Category 2 - (H373)

exposure)

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1 - (H400)

Category 1 - (H410)

Label Elements

Hazard pictograms

ADAMA Page 1/8



Signal word Danger

Hazard Statements H351 - Suspected of causing cancer

H360Df - May damage the unborn child. Suspected of damaging fertility H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No	
Linuron	39-44	330-55-2	
Monoethylene glycol	3-5	107-21-1	

Section 4: FIRST AID MEASURES

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin ContactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Monoethylene glycol 107-21-1	S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³	STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ Skin	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³	S* STEL: 40 ppm STEL: 104 mg/m³ TWA: 20 ppm TWA: 52 mg/m³	TWA: 10 ppm TWA: 26 mg/m³ Ceiling / Peak: 20 ppm Ceiling / Peak: 52 mg/m³ Skin
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Monoethylene glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Skin	Ceiling: 100 mg/m ³	Skin STEL: 104 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³	TWA: 20 ppm TWA: 50 mg/m³ STEL: 40 ppm STEL: 100 mg/m³ Skin	TWA: 10 ppm TWA: 26 mg/m³ TWA: 10 mg/m³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Monoethylene glycol 107-21-1	Skin STEL 20 ppm STEL 52 mg/m ³ TWA: 10 ppm TWA: 26 mg/m ³	Skin STEL: 20 ppm STEL: 52 mg/m³ TWA: 10 ppm TWA: 26 mg/m³	STEL: 50 mg/m³ TWA: 15 mg/m³	TWA: 10 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ Skin Ceiling: 25 ppm STEL: 104 mg/m³ STEL: 40 ppm	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Skin

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

No information available.

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Body Protection Tight sealing safety goggles.

Gloves made of plastic or rubber, Suitable protective clothing, Rubber boots, Apron, Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as

appropriate, to prevent skin contact.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water. Local authorities

should be advised if significant spillages cannot be contained. Prevent product from

entering drains.

Not Applicable

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property Values Method Remarks **Appearance**

Physical state Liquid Color beige Odor : Urea

Odor threshold : No data available

рΗ : 7.5 - 8.5 CIPAC MT 75.3 solution (1 %) Melting point/freezing point °C Not Applicable

Boiling point/boiling range °C : No data available

: > 79 CIPAC MT 12.2 Flash point °C

Evaporation rate : Not Applicable

Flammability (solid, gas) : Not applicable for liquids Upper/lower flammability or : No data available

explosive limits

Vapor pressure kPa

Vapor density : No data available

CIPAC MT 3.3.2 Relative density : 1.13 - 1.23 20 °C

Solubility(ies) mg/l Not Applicable

Partition Coefficient See Section 12 for more : information

(n-octanol/water) Log Pow **EEC A.15**

Autoignition temperature °C 560 : No data available Decomposition temperature °C

OECD 114 Kinematic viscosity mm2/s 40 °C : 493

: Not an explosive **Explosive properties** : No data available **Oxidizing properties**

Other Information

Not Applicable Bulk density g/ml Surface tension mN/m No data available

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Page 5/8 ADAMA

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

Values Species Method Remarks Oral LD50 mg/kg 5000 Rat **OECD 401** Dermal LD50 mg/kg > 2000 **OECD 402** Rabbit Inhalation LC50 mg/l/4h **OECD 403** Maximum > 4.66 Rat attainable concentration

: Non-irritating to the skin **OECD 404** Skin corrosion/irritation Rabbit Serious eye damage/eye irritation : Not irritating to eyes **OECD 405** Rabbit Respiratory/skin sensitization : Not a skin sensitizer Guinea pig **OECD 406**

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Linuron : Not classified

Carcinogenicity **Chemical Name**

Linuron : Suspected of causing cancer

Reproductive toxicity .

Chemical Name

Linuron : H360Df - May damage the unborn child. Suspected of damaging fertility

STOT - single exposure

Chemical Name

Linuron : No data available

STOT - repeated exposure

Chemical Name

Linuron : May cause damage to organs through prolonged or repeated exposure

Aspiration hazard Chemical Name

Linuron : Not available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks Fish 96-hour LC50 mg/l 15.4 Rainbow trout **OECD 203** Daphnia magna Crustacea 48-hour EC50 mg/l 15 **OECD 202** Algae 72-hour EC50 mg/l S. subspicatus 0.065 **OECD 201** Other plants EC50 mg/l 0.12 Lemna minor **OECD 221** 7 days

Terrestrial Toxicity Birds Oral LD50 mg/kg

Chemical Name

Linuron : 314 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical Name

Linuron 500 SC - HRB00893-S

Revision Date 25-May-2015

Remarks

15-25 °C

Remarks

Linuron : > 112

Persistence and degradability

Abiotic Degradation Water DT50 days

Chemical Name

Linuron

: 9.9

Soil DT50 days Chemical Name

Linuron

: 38 - 135

Biodegradation Chemical Name

Linuron : No data available

Bioaccumulative potential

Partition Coefficient

(n-octanol/water) Log Pow

Chemical Name

: 3.0 EPA-FIFRA 63-11 23 °C Linuron

Bioconcentration factor (BCF)

Chemical Name

0.95 mg/l Linuron : 38

Mobility in soil

Adsorption/Desorption Method Values Remarks

Chemical Name

Linuron : 743 **OECD 106** Koc

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Values

Values

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

Method

Method

EPA-FIFRA 162-4

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linuron)

Hazard Class

Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linuron)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

ICAO/IATA

UN/ID No 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linuron)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 16: OTHER INFORMATION

Revision Note *** - Change from previous version.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet