

<p style="text-align: center;">MONSANTO Europe S.A. Material Safety Data Sheet Commercial Product</p>
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name
Speedup 3000

Product use

Herbicide

Chemical name

Not applicable.

Synonyms

None.

Company

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Emergency numbers

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

Ethoxylated coconut fatty acid amine; {Surfactant Cocoamine}

Composition

Components	CAS No.	EINECS/ ELINCS No.	% by weight (approximate)	EU Symbols & R phrases of components
Surfactant Cocoamine	61791-14-8		13	C, N; R22, 34, 50/53; {a}
Ammonium sulphate	7783-20-2	231-984-1	29	
Acetic acid	64-19-7	200-580-7	3	C; R10, 35; {a}
Water and minor formulating ingredients			55	

3. HAZARDS IDENTIFICATION

EU label (manufacturer self-classification) - Classification following the EU Dangerous Preparations' Directive 1999/45/EC.

Xi - Irritant, N - Dangerous for the environment

R41 Risk of serious damage to eyes.

R50 Very toxic to aquatic organisms.

Potential health effects

Likely routes of exposure

Skin contact, eye contact, inhalation

Eye contact, short term

Risk of serious damage to eyes.

Skin contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Potential environmental effects

Very toxic to aquatic organisms.

Refer to section 11 for toxicological and section 12 for environmental information.

4. FIRST AID MEASURES

Eye contact

Immediately flush with plenty of water.
Continue for at least 15 minutes.
If easy to do, remove contact lenses.
Obtain medical attention from an eye specialist.

Skin contact

Take off contaminated clothing, wristwatch, jewellery.
Wash affected skin with plenty of water.
Wash clothes and clean shoes before re-use.

Inhalation

Remove to fresh air.

Ingestion

Immediately offer water to drink.
Do NOT induce vomiting unless directed by medical personnel.
If symptoms occur, get medical attention.

5. FIRE-FIGHTING MEASURES

Flash point

Does not flash.

Extinguishing media

Recommended: Water, foam, dry chemical, carbon dioxide (CO₂)

Unusual fire and explosion hazards

Minimise use of water to prevent environmental contamination.
Environmental precautions: see section 6.

Hazardous products of combustion

Carbon monoxide (CO), ammonia (NH₃), sulphur oxides (SO_x)

Fire fighting equipment

Self-contained breathing apparatus.
Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protection recommended in section 8.

Environmental precautions

Minimise spread.
Contain spillage with sand bags or other means.
Keep out of drains, sewers, ditches and water ways.
Notify authorities.

Methods for cleaning up

Contain spillage with sand bags or other means.
Absorb in earth, sand or absorbent material.
Dig up heavily contaminated soil.
Collect in containers for disposal.
Refer to section 7 for types of containers.

Minimise use of water to prevent environmental contamination.
Consult an expert immediately.

Refer to section 13 for disposal of spilled material.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

Handling

Avoid contact with skin and eyes.
Wash hands thoroughly after handling or contact.
When using do not eat, drink or smoke.
Thoroughly clean equipment after use.
Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.
Refer to section 13 for disposal of rinse water.

Storage

Minimum storage temperature: -10 °C
Maximum storage temperature: 40 °C
Compatible materials for storage: stainless steel, aluminium, fibreglass, plastic, glass lining
Incompatible materials for storage: galvanised steel, unlined mild steel, see section 10.
Keep out of reach of children.
Keep away from food, drink and animal feed.
Keep only in the original container.
Partial crystallization may occur on prolonged storage below the minimum storage temperature.
If frozen, place in warm room and shake frequently to put back into solution.
Minimum shelf life: 2 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits

Components	Exposure Guidelines
Surfactant Cocoamine	No specific occupational exposure limit has been established.
Ammonium sulphate	No specific occupational exposure limit has been established.
Acetic acid	PEL (OSHA): 25 mg/m ³ (TWA) TLV (ACGIH): 37 mg/m ³ (STEL) TLV (ACGIH): 25 mg/m ³ (TWA)
Water and minor formulating ingredients	No specific occupational exposure limit has been established.

Engineering controls

No special requirement when used as recommended.

Eye protection

Wear chemical goggles.

Skin protection

If repeated or prolonged contact:
Wear chemical resistant gloves.

Respiratory protection

No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Amber - Yellow
Form:	Liquid
Odour:	Slight, Acidic
Flash point:	Does not flash.
Specific gravity:	1.157 @ 20.00 °C
Dynamic viscosity:	200 Pa.s @ 25.00 °C
Solubility:	Water: Completely miscible.
pH:	5.3 - 5.7 @ 10.00000 g/l

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of handling and storage.

Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Data obtained on similar products are summarized below.

Similar formulation with added glyphosate

Acute oral toxicity

Rat, LD50 (limit test): > 5,000 mg/kg body weight
No mortality.

Acute dermal toxicity

Rat, LD50 (limit test): > 4,000 mg/kg body weight
Other effects: local effects
No mortality.

Skin irritation

Rabbit, 3 animals, OECD 404 test:
Redness, individual EU scores: 1.3; 1.0; 1.0
Swelling, individual EU scores: 0.3; 0.3; 0.3
Days to heal: 14
Slightly irritating to skin but not sufficient for classification.

Eye irritation

Rabbit, 3 animals, OECD 405 test:
Conjunctival redness, individual EU scores: 2.0; 1.0; 1.7
Conjunctival swelling, individual EU scores: 1.7; 1.7; 1.3
Corneal opacity, individual EU scores: 0.3; 0.0; 0.0
Iris lesions, individual EU scores: 1.0; 0.3; 0.0
Days to heal: > 21
Other effects: vascularisation

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on similar products are summarized below.

Similar formulation with added glyphosate

Aquatic toxicity, fish

Golden orfe (*Leuciscus idus*):

Acute toxicity, 96 hours, static, LC50: 3.2 mg/L

Common carp (*Cyprinus carpio*):

Acute toxicity, 96 hours, static, LC50: 2.4 mg/L

Rainbow trout (*Oncorhynchus mykiss*):

Acute toxicity, 96 hours, static, LC50: 2.1 mg/L

Aquatic toxicity, invertebrates

Water flea (*Daphnia magna*):

Acute toxicity, 48 hours, static, EC50: 2.0 mg/L

Aquatic toxicity, algae/aquatic plants

Green algae (*Selenastrum capricornutum*):

Acute toxicity, 72 hours, static, ErC50 (growth rate): 0.097 mg/L

13. DISPOSAL CONSIDERATIONS

Product

- Recycle if appropriate facilities/equipment available.
- Burn in special, controlled high temperature incinerator.
- Dispose of as hazardous industrial waste.
- Keep out of drains, sewers, ditches and water ways.
- Follow all local/regional/national/international regulations.

Container

- Triple or pressure rinse empty containers.
 - Dispose of rinse water as hazardous waste.
 - Store for collection by approved waste disposal service.
 - Dispose of as non hazardous industrial waste.
 - Do NOT re-use containers.
 - Follow all local/regional/national/international regulations.
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14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

ADR/RID

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (cocofattyamine oxethylate 13%)
UN No.: UN3082
Class: 9
Kemler: 90
Packing Group: III

IMO

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (cocofattyamine oxethylate 13%)
UN No.: UN3082
Class: 9
Packing Group: III

IATA/ICAO

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (cocofattyamine oxethylate 13%)
UN No.: UN3082
Class: 9
Packing Group: III

15. REGULATORY INFORMATION

EU label (manufacturer self-classification) - Classification following the EU Dangerous Preparations' Directive 1999/45/EC.

Xi - Irritant, N - Dangerous for the environment

R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S39	Wear eye/face protection.
S57	Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

This Safety Data Sheet has been prepared following the EU Directive 91/155/EEC as amended by EU Directive 93/112/EC and EU Directive 2001/58/EC.

In this document the British spelling was applied.

|| Changes versus previous edition.

EU Symbols & R phrases of components

Components	EU Symbols & R phrases of components
Surfactant Cocoamine	C - Corrosive N - Dangerous for the environment R22 Harmful if swallowed. R34 Causes burns. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Ammonium sulphate	
Acetic acid	C - Corrosive R10 Flammable. R35 Causes severe burns.
Water and minor formulating ingredients	

Endnotes:

{a} EU label (manufacturer self-classification)

{b} EU label (Annex I)

{c} National classification

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.