

Safety data sheet according to regulation (EC) No. 1907/2006

Trade name: NeemAzal-T/S

Creation Date: 10.05.2012

Version: 1.3 / EN

Revision Date: 24.03.2015

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

1.1 Product identifier: NeemAzal-T/S

1.2 Relevant identified uses of the substance or mixture and uses advised against
Insekticide and Acaricide

1.3 Details of the supplier of the safety data sheet

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

EUH208-0147 – Contains Azadirachtin. May produce an allergic reaction.

EUH401 – To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

NeemAzal-T/S is a mixture.

*** 3.2 Mixture**

NeemAzal technical (Active ingredient)

Synonyms: Azadirachtin, Neem-kernel-extract; Leading compound: Azadirachtin A).

Concentration: 3-4%

Classification according to Regulation (EC) No. 1272/2008:

GHS07 (Signal word: Warning); Skin Sensibilisation cat. 1; H317; EUH208-0147.

Further information and wording of the H-Phrases can be found in section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of warm water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 min. Consult a physician.

If swallowed:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge there are no known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

If person is unconscious: Call an ambulance.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Keep containers cool with water spray. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personnel protection see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not eat, drink or smoke. Keep away from food, drinks and feeding stuff. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid exposure to direct sunlight.

7.3 Specific end uses

NeemAzal-T/S is a plant protection product which is used as insecticide and acaricide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

If handled appropriate exposure limit values (AGW [DE], OEL [EU]) are not exceeded.

8.2 Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from children.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection:

Wear Cotton clothes.

Respiratory protection

Not necessary.

Environmental exposure controls

See section 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous fluid
Colour:	Honey-like, brownish
Odour:	Characteristic Neem odour
Odour treshhold	No data available
pH-Value:	7 ± 0.02
Melting point/freezing point:	No data available
Boiling point:	No data available
Flash point:	171 °C
Evaporation rate	No data available
Flammability (solid,gas)	Not required, for NeemAzal-T/S is neither a solid nor a gaseous formulation
Explosive properties:	NeemAzal-T/S is not explosive

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Lower explosive limit:	No data available
Upper explosive limit:	No data available
Vapour pressure:	3.6×10 ⁻¹¹ hPa (estimated for Azadirachtin A)
Vapour density:	No data available
Relative density:	0.98 g/ml (20°C)
Partition coefficient: (n-octanol/water)	No data available
Auto ignition temperature:	390 °C
Water solubility:	Emulsifiable in water
Viscosity:	281.4 mm ² /s (20°C)

10. Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

NeemAzal-T/S is chemically stable under normal conditions (room temperature).

10.3 Possibility of hazardous reactions

If used appropriate no hazardous reactions are expected.

10.4 Conditions to avoid

High temperatures and strong light sources. Keep away from sources of ignition.

10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizing or reducing agents.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 (oral, rat) > 5000 mg/kg.

LD50 (dermal, rat) > 2000 mg/kg.

Skin corrosion/irritation

Skin (rabbit): not irritating (May cause preliminary light reddening).

Serious eye damage/eye irritation

Eye (rabbit): not irritating (May cause preliminary light reddening and lacrimation).

Respiratory or skin sensitization

Guinea pig: not sensitizing.

Germ cell mutagenicity

No data available.

Carcinogenity

Mouse: 80 weeks – not induced (NeemAzal-F).

Reproductive toxicity

NOAEL = 5000 mg/kg Diet (NeemAzal-F).

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Mutagenicity

Micronucleus test: mouse: negative (NeemAzal technical).

Mutagenicity studies: not mutagenic (NeemAzal technical).

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

NOEC (inhalative, rat): >5,4 mg/l/4h (highest possible test concentration).

Potential health effects

To the best of our knowledge there are no potential health effects.

Signs and Symptoms of Exposure

To the best of our knowledge there are no known signs and symptoms of exposure.

* **12. ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity to fish: Trout (acute) LC50 (96 hours) = 160 mg/l.

Trout (prolonged) LC50 (28 days) = 130 mg/l.

Aquatic invertebrates: Daphnia magna EC50 (21 days) > 50 mg/l.

Reproducibility NOEC (Daphnia magna) = 50 mg/l.

(Reduction of reproducibility: NOEC = 6,25 mg/l).

Algae-Inhibition-Test: Not inhibitory, not stimulating.

Chironomids: Chironomus riparius NOEC (28 d) = 0,573 mg/l.

Effects on honeybees: Acute: non-hazardous

Reproducibility: No effect on reproducibility at an application rate of 6L/ha.

Effects on earthworms: Non-hazardous (>1000 mg/kg).

Effects on beneficials: General: non-hazardous – e.g. predatory mites (Typhlodromus pyri), ground beetles (Poecilus cupreus), seven-spot ladybirds (Coccinella septempunctata) and braconid wasps (e.g. Aphidius rhopalosiphii).

12.2 Persistence and degradability

Rapid degradation in water and soil; readily biodegradable.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT und vPvB assessment

No data available.

12.6 Other adverse effects

Harmful to syrphid flies (Episyrphus balteatus).

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13. Disposal considerations

13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company in accordance with the Directive No. 2008/98/EC.

Waste code [DE]: 02 01 09.

Packaging

Empty containers should be recycled after washing out.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR/RDI: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RDI: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RDI: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RDI: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

See sections 6, 7 and 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

NeemAzal-T/S is only released in suitable containers in accordance with traffic laws.

15. Regulatory information

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

Regulation (EC) No. 2037/2000 (Substances, that deplete the ozone layer):

Not applicable.

Regulation (EC) No. 850/2004 (Persistent organic pollutants):

Not applicable.

Regulation (EC) No. 689/2008 (Export and import of dangerous chemicals):

Not applicable.

National regulations

Water hazard class

Class: 0 (no hazard to water - own classification).

Directive No. 2004/42/EC (Volatile organic compounds)

Not applicable.

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Application regulations according to the plant protection Act (PflSchG)

SB 001 Avoid any unnecessary contact with the product. Misapplication can cause health damage. To avoid risks for humans and environment attend to the directions of use.

SB 010 Keep away from children.

NW 466 Prevent leakage or spillage. Do not let product enter drains. Discharge into environment must be avoided.

NN 391 NeemAzal-T/S is harmful to syrphid flies (*Episyrphus balteatus*).

15.2 Chemical Safety Assessment

Chemical Safety Assessment has not been carried out with NeemAzal-T/S.

*** 16. OTHER INFORMATION**

Changes compared to prior versions

This MSDS replaces Version 1.2 / EN from 08.05.2014. Chapters with changes are marked with an asterisk (*).

Hazard warnings regarding sections 2 and 3

Classification and labeling is in accordance with Regulation (EC) No. 1272/2008.



GHS07 - Warning

Skin sensitization, Kategorie 1

H317 – May cause an allergic skin reaction.

EUH208-0147 – Contains Azadirachtin. May produce an allergic reaction.

EUH401 – To avoid risks to human health and the environment, comply with the instructions for use.

Bibliographical references and data sources

Regulations

Registration, Evaluation, Authorisation and Restriction (REACH) Regulation (EC) No. 1907/2006, amended by Regulation (EU) No. 453/2010.

Regulation (EC) No. 1272/2008, amended by Regulations (EC) No. 790/2009, No. 286/2011, No. 618/2012, No. 487/2013, No. 758/2013, No. 944/2013 and No. 605/2014.

Abbreviations

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS Chemical Abstracts Services

EC Effective concentration

European community

EN European Norm

IATA-DGR International Air Transport Association-Dangerous Goods Regulation

ICAO-TI International Civil Aviation Organization - Technical Instructions

IMDG-Code International Maritime Code for Dangerous Goods

LC Lethal concentration

LD Lethal dose

MARPOL Maritime Pollution Convention

OECD Organisation for Economic Co-operation and Development

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PBT	p ersistent, b ioaccumulateable, t oxic
RID	International Rule for Transport of Dangerous Substances by Railway
UN	U nited N ations (Vereinte Nationen)
VOC	V olatile o rganic c ompounds
vPvB	v ery p ersistent, v ery b ioaccumulateable

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Trifolio-M GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.

This safety data sheet is in accordance with Regulation (EC) No. 1907/2006 amended by Regulation (EC) No. 453/2010.