

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifiers**Commercial Product Name: **ALZON[®] 46****1.2 Use of the Substance/Mixture**

Fertiliser.

1.3 Details of the supplier of the safety data sheetSKW Stickstoffwerke Piesteritz GmbH
Möllensdorfer Str. 13
06886 Lutherstadt Wittenberg, DeutschlandTelephone: +49 3491 68 0
Telefax: +49 3491 68 4300**Contact person:** Angelika Mücke
Telephone: +49 3491 68 2074
E-mail address: Angelika.Muecke@skwp.de**1.4 Emergency telephone number****SKW:** +49 3491 68 2202**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Not Rated

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

Not Rated

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**

Not required.

Labelling (67/548/EEC or 1999/45/EC):

Not required.

2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006. Annex XIII.

Adverse human health effects and symptoms:

None known.

Potential environmental effects:

slightly water endangering

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixture related information****Description:**

Urea with nitrification inhibitor (Mixture of dicyandiamide and 1,2,4-triazole)

Components:

Substance name	
Urea	CAS-No.: 57-13-6 EC-No.: 200-315-5 REACH No.: 01-2119463277-33-XXXX
dicyandiamide	CAS-No.: 461-58-5 EC-No.: 207-312-8 REACH No.: 01-2119474914-28-XXXX
1H-1,2,4-triazole	CAS-No.: 288-88-0 EC-No.: 206-022-9

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

Remove to fresh air.

In case of skin contact:

Wash off with soap and water.

In case of eye contact:

Immediately flush eye(s) with plenty of water.

If swallowed:

Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

No information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water. Carbon dioxide (CO₂). Foam. Dry powder.

Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Ammonia.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional advice:

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire may cause evolution of: NH₃. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No special precautions required. Forms slippery surfaces in contact with water.

6.2 Environmental precautions

Do not let enter drains/ surface water/ ground water.

6.3 Methods and materials for containment and cleaning up

Pick up when dry. Put into suitable containers and take for recycling or disposal.

6.4 Reference to other sections

none

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special precautions required.

Fire prevention measures:

The product is not flammable. No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage areas and containers:**

Keep in a dry place. Keep in closed storage rooms or in a room protected from atmospheric influences. Resistant and impermeable floor surface.

7.3 Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Exposure limit(s): none

Biological occupational exposure limits: none

8.2 Exposure controls**Personal protective equipment:****Eye/face protection:**

Not required.

Hand protection:

not required

Skin and body protection:

No special protective equipment required.

Hygiene measures:

Wash hands before breaks and at the end of workday.

General protective measures:

Avoid prolonged and intensive skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	solid, granular	
Colour	light blue	
Odour	slightly ammoniacal	
pH (20 °C)	< 10	Concentration: 100 g/l Aqueous solution
Melting point/range	ca. 130 °C	
Boiling point/boiling range		decomposition beginning at melting point
Flash point		not applicable
Bulk density	ca. 800 kg/m ³	
Water solubility (20 °C)	1080 g/l	Method: A6
Partition coefficient: n-octanol/water (log/Pow)	-1,59	
Auto-flammability		Method: A16 not auto-flammable

9.2 Other data

none

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available.

10.2. Chemical stability

No decomposition if used as directed.

10.3 Possibility of hazardous reactions

Violently with nitrites. With strong oxidising agents.

10.4. Conditions to avoid

Uncontrolled heating.

10.5. Incompatible materials to avoid

Oxidising substances. Acids. Bases.

10.6 Hazardous decomposition productsAmmonia. Nitrogen oxides (NO_x). Carbon dioxide (CO₂). Carbon monoxide.**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute oral toxicity:	Test substance:	Urea
	Dose LD50:	14300 mg/kg
	Species:	rat
Acute inhalation toxicity:	Test substance:	Urea
		Study based on exposure observations not required.
Acute dermal toxicity:	Test substance:	Urea
		Study not provided with scientific basis.
Skin irritation:	Test substance:	Urea
	Result:	non-irritant
Eye irritation:	Test substance:	Urea
	Result:	non-irritant
Respiratory or skin sensitization:	Test substance:	Urea
	Result:	Not sensitizing.
Mutagenicity:	Test substance:	Urea
	Result:	Not mutagenic.
Repeated dose toxicity:	Application Route:	Oral
	Test substance:	Urea
	NOAEL:	2250 mg/kg
	Species:	rat
	Result:	none
Reproductive toxicity:	Test substance:	Urea
	Species:	rat
	NOAEL	500 mg/kg
Other data:	No evidence suggesting dangerous properties.	

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish:	Test substance:	Urea
	Dose LC50:	> 6810 mg/l
	Species:	Leuciscus idus (Golden orfe)
	Exposure time:	96 h
	Test substance:	Urea
	Dose EC50:	> 10000 mg/l
	Species:	Daphnia magna (Water flea)
	Exposure time:	24 h
Toxicity to algae:	Species:	Scenedesmus quadricauda (Green algae)
	Exposure time:	192 h
	Dose:	> 10000 mg/l

12.2 Elimination information (persistence and degradability)

Biological degradability:	Test substance:	Urea
		Readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation: **Test substance:** Urea
Does not bioaccumulate.

12.4 Mobility in soil

Stability in soil: No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Additional ecological information: Slightly water endangering.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues:

In accordance with the waste recycling/disposal regulations, has to be taken to an approved waste disposal facility. The classification of the waste has to be made according to its source in accordance with the European waste code regulations.

Contaminated packaging:

Disposal according to the regulations, contaminated packaging has to be treated in the same way as the substance itself. Packaging should be completely emptied, and then taken to an approved recycler after appropriate cleaning.

14. TRANSPORT INFORMATION

Additional advice:

Not dangerous goods

15. REGULATORY INFORMATION

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

European Union:

Regulation: 1907/2006 (EU)
Regulation: REGULATION (EC) No 1272/2008
Directive: 1999/45/EC
Directive: 67/548/EEC

National legislation (Germany):

Other regulations:

Fertiliser directive and its related regulations

15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has been carried out for this substance: Urea

16. OTHER INFORMATION

Further information:

The data corresponds to our current knowledge and describes our product with regard to safety requirements. Therefore the data is not meant to warranty certain properties of the product. It is the responsibility of the receiver of our product to comply with current legislation and regulations.