

Safety Data Sheet

Version NW001. 19.01.2017

NanoWorks Whistle

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

NanoWorks Whistle

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

Details of the supplier of the safety data sheet

Supplier name: NanoWorks
Street: 316 Swartkop Eiland
Place: Uppington
Telephone: +27 83 228 9610
e-mail: info@nanoworks.co.za
Contact person: J. Van der Merwe Telephone: +27 73 778 3258

Emergency telephone: +27 73 778 3258

SECTION 2: Hazards identification

Classification of the substance or mixture

Indications of danger : Irritant

R-phrases:

Irritating to eyes.

Label elements

Danger symbols: Xi - Irritant



Xi - Irritant

R phrases

36 Irritating to eyes.

S phrases

02 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

| EC No. | Chemical name | Quantity |
|------------|---------------------------------|----------|
| CAS No. | Classification | |
| Index No. | GHS classification | |
| REACH No. | | |
| 263-058-8 | cocoamidopropyl betaine | 5 - 10 % |
| 61789-40-0 | Xi R41 | |
| | Eye Dam. 1; H318 | |
| | alkyl polyethylene glycol ether | 1 - 5 % |

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Xn R22-41

Acute Tox. 4, Eye Dam. 1; H302 H318

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

General information

Remove from exposure, lie down. Take off all contaminated clothing immediately.

After inhalation

Move to fresh air. If symptoms persist, call a physician.

After contact with skin

Take off all contaminated clothing immediately.

Wash off immediately with plenty of water.

If symptoms persist, call a physician.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth.

If swallowed, seek medical advice immediately and show this container or label.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

water spray, carbon dioxide (CO₂), alcohol-resistant foam, dry chemical

The product itself does not burn.

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

Special hazards arising from the substance or mixture

Heating or fire can release toxic gas. nitrogen oxides (NO_x) Carbon oxides

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Special protective equipment for fire-fighters

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Clean-up methods - small spillage Dilute with plenty of water.

Clean-up methods - large spillage Soak up with inert absorbent material (e.g. sand, silica gel, acid

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binder, universal binder, sawdust). Treat recovered material as described in the section "Disposal considerations".

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid formation of aerosol. Avoid contact with skin, eyes and clothing.
Keep container tightly closed.

Advice on protection against fire and explosion

The product itself does not burn.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in original container.

Advice on storage compatibility

Keep away from food and drink.

Further information on storage conditions

Protect from frost, heat and sunlight.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Protective and hygiene measures

Avoid contact with the skin and the eyes.
Remove and wash contaminated clothing before re-use.
Wash hands before breaks and at the end of workday.

Respiratory protection

Breathing apparatus needed only when aerosol or mist is formed.
Half mask with a particle filter P2 (EN 143).

Hand protection

As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Polychloropren - CR (0,5 mm)
Nitrilkautschuk/Nitrillatex - NBR (0,35 mm)
Butylkautschuk - Butyl (0,5 mm)
Fluorkautschuk - FKM (0,4 mm)
Polyvinylchlorid - PVC (0,5 mm)

Eye protection

safety glasses with side-shields

Skin protection

long sleeved clothing

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid

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Colour: xxxxx
Odour: pleasant

Test method

pH-Value (at 23 °C): 10,5- 11,0 (10g/l Wasser)

Changes in the physical state

Melting point: not determined
Boiling point: not determined
Flash point: not applicable

Explosive properties

Not explosive

Ignition temperature: not applicable

Oxidizing properties

Not applicable.

Density (at 20 °C): ca. 1,1- 1,15 g/cm³

Water solubility: completely miscible
(at 20 °C)

SECTION 10: Stability and reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

No decomposition if used as directed.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Direct sources of heat.
To avoid thermal decomposition, do not overheat.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

| CAS No. | Chemical name | Exposure routes | Method | Dose | Species | h |
|------------|---------------------------------|---------------------|--------|-----------------|---------|---|
| 61789-40-0 | cocoamidopropyl betaine | Acute oral toxicity | LD50 | > 2000 mg/kg | Ratte | |
| | alkyl polyethylene glycol ether | Acute oral toxicity | LD50 | 300- 2000 mg/kg | Ratte | |

Irritation and corrosivity

Skin irritation: None known.
Severe eye irritation

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SECTION 12: Ecological information

Toxicity

| CAS No. | Chemical name | Method | Dose | Species | h |
|------------|---------------------------------|--------|--------------|-------------------------|----|
| 61789-40-0 | cocoamidopropyl betaine | | | | |
| | Acute fish toxicity | LC50 | 1-10 mg/l | Cyprinus carpio | 96 |
| | Acute algae toxicity | ErC50 | 1-10 mg/l | scenedesmus subspicatus | 72 |
| | Acute crustacea toxicity | EC50 | 1-10 mg/l | Daphnia magna | 48 |
| | alkyl polyethylene glycol ether | | | | |
| | Acute fish toxicity | LC50 | 10- 100 mg/l | Brachydanio rerio | 96 |
| | Acute algae toxicity | ErC50 | 10- 100 mg/l | Scenedesmus subspicatus | 72 |
| | Acute crustacea toxicity | EC50 | 10- 100 mg/l | Daphnia magna | 48 |

Persistence and degradability

Contained tenside is more than 90% biodegradable.

Further information

Neutralization is normally necessary before waste water is discharged into water treatment plants.

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

In accordance with local and national regulations.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging

water.

Completely emptied packages may be recycled.

Dipose of packages that cannot be cleaned.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not classified as dangerous in the meaning of transport regulations.

Marine transport

Other applicable information (marine transport)

Not classified as dangerous in the meaning of transport regulations.

Air transport

Other applicable information (air transport)

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

National regulatory information

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Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

22 Harmful if swallowed.
36 Irritating to eyes.
41 Risk of serious damage to eyes.

Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)