

NIXELA

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	NIXELA
Trade Name	NIXELA
Product code	NIX SL/01
CAS No.	Mixture
EC No.	Mixture
REACH Registration No.	Not known.

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

Identified Use(s)	Fertiliser
Uses Advised Against	Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification	AECI Plant Health
Address of Manufacturer	14 Field Road, Lilianton Boksburg South-Africa
Postal code	1459
Telephone:	+27 11 823 8000
E-mail	Sandy.Sibiya@aeciworld.com
Office hours	08:00 - 17:00

Supplier

Company Identification	AECI Plant Health
Address of Supplier	14 Field Road, Lilianton Boksburg South-Africa
Postal code	1459
Telephone:	+27 11 823 8000
E-mail	Sandy.Sibiya@aeciworld.com
Office hours	08:00 - 17:00

1.4 Emergency telephone number

Emergency Phone No.	+27 82 600 0439
Contact	Sandy

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Eye Irrit. 2 :Causes serious eye irritation.
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2.2 Label elements

Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Nixela
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Hazard Pictogram(s)



GHS07

Signal Word(s)

Warning

NIXELA

Hazard Statement(s) H319: Causes serious eye irritation.
 Precautionary Statement(s) P264: Wash hands and exposed skin thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
(2ξ)-D-gluco-heptonic acid	23351-51-1	245-601-0	50-60%	Not classified.	None
Water	7732-18-5	231-791-2	Balance	Not classified	None
Potassium Hydroxide	1310-58-3	215-181-3	5-8%	Acute Tox. 4 H302 Skin Corr. 1A H314	GHS05 GHS07
Calcium Oxide	1305-78-8	215-138-9	3-7%	Not classified.	None
Salicylic Acid	69-72-7	200-712-3	<3%	Acute Tox. 4 H302 Eye Dam. 1 H318 Repr. 2 H361d	GHS05 GHS08 GHS07
Magnesium Oxide	1309-48-4	215-171-9	<3%	Not classified.	None
Boric Acid	10043-35-3	233-139-2	<2%	Repr. 1B H360FD	GHS08

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation persist.

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation persist.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Prolonged exposure may cause respiratory irritation.

Skin Contact May be harmful if swallowed.

Eye Contact Prolonged contact may cause some irritation.

Ingestion Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

SMALL FIRE: Use dry chemical powder.

Unsuitable extinguishing media

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Water jet.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours, if any. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

Fertiliser

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Calcium oxide	1305-78-8		2			
Calcium oxide - Respirable fraction	1305-78-8		1		4	
Calcium oxide	1305-78-8		1		4	IOELV, (7.1)
Magnesium oxide (as Mg) inhalable dust fume	1309-48-4		10			
Magnesium oxide (as Mg) respirable dust	1309-48-4		4			

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Potassium hydroxide	1310-58-3				2	
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Region	Source
EU	EU Occupational Exposure Limits
United Kingdom	UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark	Notes
IOELV (7.1)	Indicative Occupational Exposure Limit Values. Respirable fraction.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection Wear eye protection with side protection (EN166).



Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards Not applicable

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour :	Brown.
Odour	Acidic
Odour threshold	Not known.
pH	5-8 (100%)
Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash Point	Not classified
Evaporation rate	Not known.
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not classified
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	1.27-1.28 g/ml
Relative density	1.27-1.28 g/ml
Solubility(ies)	Completely soluble in water.
Partition coefficient: n-octanol/water	Completely soluble in water.
Auto-ignition temperature	Not known.

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Decomposition Temperature (°C)	Not known.
Viscosity	Not applicable
Explosive properties	Not classified
Oxidising properties	Not classified

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Calculated acute toxicity estimate (ATE) Calc ATE - 5500.00000
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

11.2 Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

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The product has high mobility in soil.

12.5 Results of PBT and vPvB assessment

Not a PBT or vPvB

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not required

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Boric Acid (10043-35-3)

REACH: ANNEX XIV list of substances subject to authorisation

Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Toxic to reproduction: category 1B (10043-35-3), Salicylic Acid (69-72-7), Potassium Hydroxide (1310-58-3)

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

Not listed

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National regulations

Other

Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS07

GHS05: GHS: Corrosion

GHS08: GHS: Health hazard

Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4
 Skin Corr. 1A : Skin corrosion/irritation, Category 1A
 Eye Dam. 1 : Serious eye damage/irritation, Category 1
 Eye Irrit. 2 : Serious eye damage/irritation, Category 2
 Repr. 1B : Reproductive toxicity, Category 1B
 Repr. 2 : Reproductive toxicity, Category 2

Hazard Statement(s)

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.
 H319: Causes serious eye irritation.
 H360FD: May damage fertility. May damage the unborn child.
 H361d: Suspected of damaging the unborn child.

Precautionary Statement(s)

P264: Wash hands and exposed skin thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.

Acronyms

CAS : Chemical Abstracts Service
 CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
 DNEL : Derived No Effect Level
 EC : European Community
 EINECS : European Inventory of Existing Commercial Chemical Substances
 LTEL : Long term exposure limit
 PBT : Persistent, Bioaccumulative and Toxic
 PNEC : Predicted No Effect Concentration
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 STEL : Short term exposure limit
 STOT : Specific Target Organ Toxicity
 vPvB : very Persistent and very Bioaccumulative

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Key literature references and sources
for data used to compile the SDS
Disclaimers

Regulation (EC) No. 1272/2008 (CLP)

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