NIXELA

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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; 20211
Unique Formula Identifier (UFI)	C6YS-U1TT-7004-DCXA

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, a division of AECI Ltd.
Address of Manufacturer	14 Field Road, Lilianton Boksburg South-Africa
Postal code	1459
Telephone:	+27 11 823 8000
E-mail	planthealth@aeciworld.com
Office hours	08:00 - 17:00

Supplier

Company Identification	AECI Plant Health, a division of AECI Ltd.
Address of Supplier	14 Field Road, Lilianton Boksburg South-Africa
Postal code	1459
Telephone:	+27 11 823 8000
E-mail	planthealth@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. Repr. 1B :May damage fertility. May damage the unborn child.

2.2 Label elements

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

Product Name: Nixela

Hazard Pictogram(s)



GHS08



GHS07

Signal Word(s): Danger

Hazard Statement(s): H319: Causes serious eye irritation.

H360FD: May damage fertility. May damage the unborn child.

Precautionary Statement(s)

P203: Read and follow all safety instructions before use.
P270: Do not eat, drink when using this product.
P280: Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.
P264: Wash hands and face thoroughly after handling.
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 help.

Unique Formula Identifier (UFI) C6YS-U1TT-7004-DCXA

2.3 Other hazards

This product contains: 69-72-7 (Endocrine disrupting properties)

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 Exempt	50-60%	Not classified.	None
Water	7732-18-5	231-791-2	Balance	Not classified	None
Acetic acid	64-19-7	200-580-7 01-2119475328-30-0140	5-10%	Flam. Liq. 3 H226 Skin Corr. 1A H314	GHS02 GHS05
Potassium hydroxide	1310-58-3	215-181-3 01-2119487136-33-0012	5-8%	Acute Tox. 4 H302 Skin Corr. 1A H314	GHS05 GHS07
Calcium dihydroxide	1305-62-0	215-137-3 01-2119475151-45-0135	3-7%	Aquatic Chronic 4 H413	None
Salicylic Acid	69-72-7	200-712-3 01-2119486984-17-0000	<3%	Acute Tox. 4 H302 Eye Dam. 1 H318 Repr. 2 H361d	GHS05 GHS08 GHS07
Magnesium Oxide	1309-48-4	215-171-9 Exempt	<3%	Not classified.	None
Boric acid	10043-35-3	233-139-2 01-2119486683-25-0000	<2%	Repr. 1B H360FD	GHS08

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit		M-factor	ATE
Acetic acid	64-19-7	Skin Corr. 1A	C>= 90.00 <= 100.00		
		Skin Corr. 1B	C>= 25.00 < 90.00		
		Skin Irrit. 2	C>= 10.00 < 25.00		
		Eye Irrit. 2	C>= 10.00 < 25.00		
Potassium hydroxide	1310-58-3	Skin Corr. 1A	C>= 5.00 <= 100.00		Acute Tox. 4 (H302) : 500
		Skin Corr. 1B	C>= 2.00 < 5.00		
		Skin Irrit. 2	C>= 0.50 < 2.00		
		Eye Irrit. 2	C>= 0.50 < 2.00		
Salicylic Acid	69-72-7				Acute Tox. 4 (H302) : 500

Contains no non-classified vPvB substances.
Contains no non-classified substances with a Union workplace exposure limit.
For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	IF exposed or concerned: Get medical advice/attention.
Skin Contact	IF exposed or concerned: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If eye irritation persists:
Ingestion	IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None.

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 complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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

Store locked up.

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Calcium dihydroxide	1305-62-0		1		4	IOELV, (7.1)
Acetic acid	64-19-7	10	25	20	50	IOELV

Region	Source
EU	Indicative Occupational Exposure Limit Value

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

8.2 Exposure controls

8.2.1. Appropriate engineering controls: Use with ventilation, local exhaust ventilation or breathing protection. 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: A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards: None known.

8.2.3. Environmental Exposure Controls: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Brown.
Odour	Acidic
Melting point/freezing point	0 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not known.
Lower and upper explosion limit	Not applicable
Flash Point	Not classified Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	4.8-5.2 (100%)

Kinematic Viscosity	Not applicable
Solubility	Solubility (Water) : Completely soluble in water. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Completely soluble in water.
Vapour pressure	Not known.
Density and/or relative density	Density (g/ml) : 1.27-1.28 g/ml - Relative density : 1.27-1.28 g/ml
Relative vapour density	Not known.
Particle characteristics	Not known.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion	Calculated acute toxicity estimate (ATE) Calc ATE - 5296.61
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Self Not classified.
Serious eye damage/irritation	Causes serious eye irritation.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	May damage fertility. May damage the unborn child.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

11.2 Information on other hazards

Endocrine disrupting properties: List II: Substances under evaluation for endocrine disruption under an EU legislation 69-72-7 (Human health) ; List III: Substances considered, by the evaluating National Authority, to have endocrine disrupting properties 69-72-7 (Human health)

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

The product has high mobility in soil.

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. 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 or ID number

Not applicable

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 Maritime transport in bulk according to IMO instruments

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), Calcium dihydroxide (1305-62-0), potassium hydroxide (1310-58-3), acetic acid … % (64-19-7)
Community Rolling Action Plan (CoRAP)	Not listed

Regulation (EU) N° 2019/1021 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
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)



GHS08



GHS07

GHS02: GHS: Flame
GHS05: GHS: Corrosion

Hazard classification

Flam. Liq. 3 : Flammable liquid, Category 3
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
Aquatic Chronic 4 : Hazardous to the aquatic environment, Chronic, Category 4

Hazard Statement(s)

H226: Flammable liquid and vapour.
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.
H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statement(s)

P203: Read and follow all safety instructions before use.
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.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ATE : Acute Toxicity Estimate
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
Key literature references and sources for data used to compile the SDS	Regulation (EC) No. 1272/2008 (CLP)
Training Advice	Regular safety training as appropriate
Disclaimers	Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. AECI Plant Health, a division of AECI Ltd. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. AECI Plant Health, a division of AECI Ltd. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.