

SAFETY DATA SHEET

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issue Date 03-Sep-2020

Revision Number 1

Revision date 07-Sep-2020

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

1.1. Product identifier

Product Name NUtEC MF+ Cleaning Solution

Contains Butoxyethyl acetate

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

Recommended use Digital Printing

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer NUTEC DIGITAL INK (PTY) LTD. 1 CLIFFORD STREET OTTERY, 7800 SOUTH AFRICA

For further information, please contact

Emergency: New Zealand 0800 Poison (0800 764 766)

Supplier: Hitec-Ink

Contact Point Regulatory Department

Unit 4 / 231 Annex Road

1.4. Emergency telephone number

Middleton 8025

Emergency Telephone

During normal opening times: +27 21 763 6990

Christchurch

24 Hours: +27 83 326 0774

Ph 03 6660100

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

Hazard symbols

Xn - Harmful

R-code(s)

Xn;R20/21

2.2. Label elements

Product identifier

Contains Butoxyethyl acetate



Signal word

Warning

Hazard statements

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves and eye/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

2.3. Other hazards

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Butoxyethyl acetate	203-933-3	112-07-2	80-100	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	No data available

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	If symptoms persist, call a doctor. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Inhalation	Remove to fresh air. Call a doctor. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a doctor if necessary.
Eye contact	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a doctor.
Self-protection of the first aider	Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms .

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Remove all sources of ignition.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labelled containers. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimise spreading. Soak up with inert absorbent material.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials

None known based on information supplied.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
Butoxyethyl acetate	TWA 20 ppm	TWA: 20 ppm	TWA: 10 ppm	TWA: 20 ppm	TWA: 10 ppm

112-07-2	TWA 133 mg/m ³ STEL 50 ppm STEL 333 mg/m ³ *	TWA: 133 mg/m ³ STEL: 50 ppm STEL: 332 mg/m ³ Sk*	TWA: 66.5 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ via dérmica*	TWA: 65 mg/m ³ H*
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ pelle*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ P*	TWA: 135 mg/m ³ STEL: 333 mg/m ³ H*	TWA: 20 ppm TWA: 130 mg/m ³ STEL: 50 ppm STEL: 330 mg/m ³ iho*	TWA: 20 ppm TWA: 134 mg/m ³ H*
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL 40 ppm STEL 270 mg/m ³ H*	TWA: 10 ppm TWA: 66 mg/m ³ STEL: 20 ppm STEL: 132 mg/m ³ H*	STEL: 300 mg/m ³ TWA: 100 mg/m ³	TWA: 10 ppm TWA: 65 mg/m ³ STEL: 15 ppm STEL: 97.5 mg/m ³ H*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ Sk*

Chemical name	European Union	United Kingdom	France	Spain	Germany
Butoxyethyl acetate 112-07-2	-	-	-	-	100 mg/L 150 mg/L
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Butoxyethyl acetate 112-07-2	-	100 200	-	-	-

Derived No Effect Level (DNEL)

Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.
Skin and body protection Suitable protective clothing.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid	Odour	Characteristic
Appearance	Liquid	Odour threshold	
Colour	clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		
Melting point / freezing point		
Boiling point / boiling range	142 °C / 288 °F	
Flash point	70 °C / 158 °F	
Evaporation rate		
Flammability (solid, gas)		
Flammability Limit in Air		
Upper flammability or explosive limits		Lower flammability or explosive limits
Vapour pressure		
Vapour density		
Relative density		
Water solubility		
Solubility(ies)		
Partition coefficient		
Autoignition temperature		
Hyphen		
Kinematic viscosity		
Dynamic viscosity		
Explosive properties	Not an explosive	
Oxidising properties	Not applicable	

9.2. Other information
VOC Content (%)

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

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10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No data available.

Eye contact No data available.

Skin contact No data available.

Ingestion No data available.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 14,545.00 mg/kg

ATEmix (dermal) 1,740.00 mg/kg

ATEmix (inhalation-dust/mist) 1.50 mg/l

ATEmix (inhalation-vapour) 12.41 mg/l

Unknown acute toxicity

21.98 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

21.98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

11.98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

11.98 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Butoxyethyl acetate	= 2400mg/kg (Rat)	= 1500 mg/kg (Rabbit)	> 400 ppm (Rat) 4 h

Skin corrosion/irritation .

Serious eye damage/eye irritation .

Sensitisation	.
Germ cell mutagenicity	.
Carcinogenicity	.
Reproductive toxicity	.
STOT - single exposure	.
STOT - repeated exposure	.
Target organ effects	liver, kidney, Respiratory system, Eyes, Skin, Central nervous system, blood, Hematopoietic System.
Aspiration hazard	.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Unknown aquatic toxicity Contains 1.98 % of components with unknown hazards to the aquatic environment
1.98 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Butoxyethyl acetate	500: 72 h Desmodium subspicatus mg/L EC50	-	37: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

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12.3. Bioaccumulative potential

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Chemical name	Partition coefficient
Butoxyethyl acetate	1.51

12.4. Mobility in soil

Mobility in soil

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12.5. Results of PBT and vPvB assessment

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12.6. Other adverse effects

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.

Other information

Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION**IMDG**

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7	

RID

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

ADR

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

IATA

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	French RG number	Title
Butoxyethyl acetate 112-07-2	RG 84	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

The Stockholm Convention on Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

All of the components in the product are on the following Inventory lists .

15.2. Chemical safety assessment

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

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

R10 - Flammable
R20 - Harmful by inhalation
R36 - Irritating to eyes
R20/21 - Harmful by inhalation and in contact with skin

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Issue Date 03-Sep-2020

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Revision Note Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet