Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 19.01.2021 Version number 3 Revision: 19.01.2021

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

1.1 Product identifier

Trade name: BioClean Alu Remover

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

Technical function Cleaning agent
Application of the substance / the mixture
Alkaline cleaner/ detergent
Industrial cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
JetCleaning B.V.
Sigarenmaker 2
5521 DJ Eersel
Nederland
T. +31 (0)497 33 00 32
info@jet-cleaning.com
www.jet-cleaning.com

BioClean, a brand of Apex International
www.apex-groupofcompanies.com

Further information obtainable from:
T. +31 (0)497 33 00 32
safety@jet-cleaning.com

1.4 Emergency telephone number:

24/7 : +31 (0) 167 537 011

National Poison Centre
België (Belgique) Centre Antipoisons-Antigifcentrum 070 245 245
Česká Republika (Czech Republic) Toxikologické informační středisko 0 22 49 192 93
Danmark (Denmark) Poison Information Center 0 82 12 12 12
Deutschland (Germany) Clinical Toxicology and Berlin Poison Information Centre 0 30 192 40
España (Spain) Servicio de Información Toxicológica 091 562 04 20
France Centre antipoison et de toxicovigilance de Paris 01 40 05 48 48
Ireland Poisons Information Centre of Ireland 01 809 2166
Italia (Italy) Centro Antiveleni Rome 06 499 70 698
Lietuvia (Lithuania) Environmental Protection Agency 370 70662008
Luxembourg Centre Antipoison 8002 5500
Magyarország (Hungary) Health Toxicological Information Service 080 20 11 99
Nederland Nationaal Vergiften Informatie Centrum 0 30 274 88 88 (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen)
Norge (Norway) Department for Poisons Information 022 59 13 00
Österreich (Austria) Vergiftungsinformationszentrale 01 406 43 43
Polska (Poland) Centrum Toksykologii 022 619 66 54
Portugal Centro de Informação Antivenenos 021 330 3284
România (Romania) Spitalul de Urgenta Floreasca 021 230 8000
Slovenská republika (Slovakia) National Toxicological Information Center 02 54 774 166
Schweiz (Swiss) Toxicological Information Centre 0 44 251 51 51
Sverige (Sweden) Giftinformationscentralen (Swedish Poisons Information Centre) 08 33 12 31
Suomi (Finland) Nødnummer Myrkytystietokeskus 09-471977
United Kingdom National Poison Centre – Poison Information Service 111

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

Signal word Danger

Hazard-determining components of labelling:
POTASSIUM HYDROXIDE
ETHANOLAMINE

Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe dusts or mists.
P280	Wear protective gloves / eye protection.
P280	Wear eye protection / face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous components:

CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33	POTASSIUM HYDROXIDE Met. Corr.1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 % Met. Corr.1; H290: C ≥ 2.5 %	5-15%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36	2-Butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28	ETHANOLAMINE Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	1-5%
CAS: 160875-66-1 Polymer Reg.nr.: Exempted [4]	2-Propylheptanolethoxylate Eye Dam. 1, H318 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	1-5%
CAS: 51981-21-6 EINECS: 257-573-7 Reg.nr.: 01-2119493601-38	TETRASODIUM GLUTAMATE DIACETATE Met. Corr.1, H290 Specific concentration limit: Met. Corr.1; H290: C ≥ 20 %	1-5%
CAS: 1312-76-1 EINECS: 233-001-1 Reg.nr.: 01-2119456888-17	Potassiumsilicate Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 50 % Skin Irrit. 2; H315: 1 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 38 % Eye Irrit. 2; H319: 1 % ≤ C < 38 % Met. Corr.1; H290: C ≥ 5 %	1-5%

Additional information:

For the wording of the listed risk phrases refer to section 16. Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.
[3] Exempted: Annex V of Regulation (EC) No 1907/2006.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

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SECTION 4: First aid measures

4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
5.3 Advice for firefighters
Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
When diluting always pour product into water and not vice versa.
Prevent formation of aerosols.
Use only in well ventilated areas.
Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Do not store together with acids.
Further information about storage conditions:
Protect from frost.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

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Storage class: 8 B
7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
111-76-2 2-Butoxyethanol	
IOELV	Short-term value: 246 mg/m³, 50 ppm Long-term value: 98 mg/m³, 20 ppm Skin
141-43-5 ETHANOLAMINE	
IOELV	Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Skin

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Appropriate engineering controls No further data; see item 7.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Respiratory protection:

During operations which cause the formation of vapor / mist / aerosol, use a half face mask according NEN140, or a full face mask according EN 136:1998/C1:2000.

Recommended filter device for short term use: ABEK/P2
Hand protection

Preventive skin protection by use of gloves is recommended.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Suitability (penetration time, material thickness) for a specific workplace
should be discussed with the manufacturer of the protective gloves.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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For the permanent contact gloves made of the following materials are suitable:
Nitrile rubber: Penetration time >480 min - Recommended thickness: 0,4 mm
For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Nitrile rubber. Penetration time 30 min - Recommended thickness: 0,13 mm
As protection from splashes gloves made of the following materials are suitable:
PVC (EN374)
Nitrile rubber: 0.11 mm (EN374)
Eye/face protection

Tightly sealed goggles

Body protection:

Alkaline resistant protective clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point (CCMP):	Not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH at 20 °C	13
pH-value 50% v/v:	
Viscosity:	
Kinematic viscosity	Not determined.
Viscositeit (uitloopbeker)	
Dynamic at 20 °C:	10 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.1 g/cm³
Relative density	Not determined.

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Vapour density	Not determined.
9.2 Other information	Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.
Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	240 °C
Explosive properties:	Product does not present an explosion hazard.
Solvent separation test:	
VOC (EC)	9.90 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	May be corrosive to metals.
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions
Reacts with various metals.
Corrosive action on metals.
Reacts with strong acids.
Reacts with oxidising agents.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Don't mix with acids.

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10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.
Skin corrosion/irritation Causes severe skin burns and eye damage.
Serious eye damage/irritation Causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue
The EC waste catalog number (EAC) can only be determined after the type of use by the end-user is known for this product.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR/RID/ADN, IMDG, IATA	UN1719
14.2 UN proper shipping name	
ADR/RID/ADN	1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE, ETHANOLAMINE)
IMDG, IATA	CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE, ETHANOLAMINE)
14.3 Transport hazard class(es)	
ADR/RID/ADN, IMDG, IATA	

Class	8 Corrosive substances.
Label	8
ADN/R Class:	8 Corrosive substances.
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Segregation Code	SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

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Transport/Additional information:

ADR/RID/ADN	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE, ETHANOLAMINE), 8, II

SECTION 15: Regulatory information

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

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

Regulation (EC) No 648/2004 on detergents / Labelling for contents

amphoteric surfactants, non-ionic surfactants	<5%

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*
SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This Safety Data Sheet is exclusively meant for industrial/professional use.

Relevant phrases
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS: Product safety department.
Contact: N. Gerrits

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Date of previous version: 12.01.2021
Version number of previous version: 2
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Sources
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No.1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet.
*** Data compared to the previous version altered.**