

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

Printing date 19.01.2021

Version number 2

Revision: 19.01.2021

**SECTION 1: Identification of the substance/mixture and of the company/
undertaking****1.1 Product identifier****Trade name:** BioClean MultiSolv**1.2 Relevant identified uses of the substance or mixture and uses advised against****Technical function** Cleaning agent**Application of the substance / the mixture**Alcohol cleaner
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.comBioClean, 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 vergiftiging)
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

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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



GHS07

Signal word Warning

Hazard-determining components of labelling:

Diacetone alcohol

Hazard statements

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

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

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection / face protection.

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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

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.

Dangerous components:

CAS: 123-42-2 EINECS: 204-626-7 Reg.nr.: 01-2119473975-21	Diacetone alcohol ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	75-100%
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	5-15%

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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.

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: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

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.

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.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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).

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Use only in well ventilated areas.

Information about fire - and explosion protection: No special measures required.

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: Not required.

Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Storage class: 10

7.3 Specific end use(s) No further relevant information available.

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/m ³ , 50 ppm
	Long-term value: 98 mg/m ³ , 20 ppm
	Skin

DNELs

123-42-2 Diacetone alcohol

Oral	Long-term exposure - systemic effects	3.4 mg/kg bw/day (Consumer)
Dermal	Long-term exposure - systemic effects	3.4 mg/kg bw/day (Consumer)
		9.4 mg/kg bw/day (Worker)
Inhalative	Long-term exposure - local effects	11.8 mg/m ³ (Consumer)
		66.4 mg/m ³ (Worker)
	Long-term exposure - systemic effects	11.8 mg/m ³ (Consumer)
		66.4 mg/m ³ (Worker)
	Acute/short term exposure - local effects	120 mg/m ³ (Consumer)
		240 mg/m ³ (Worker)

PNECs

123-42-2 Diacetone alcohol

Aqua (Freshwater)	2 mg/l
Aqua (Marinewater)	0.2 mg/l
Sewage treatment plant	82 mg/l
Sediment (freshwater)	9.06 mg/kg dw
Sediment (marinewater)	0.91 mg/kg dw
Soil	0.63 mg/kg dw

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

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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.

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: Filter A

Hand protection



Solvent resistant gloves.



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.

For the permanent contact gloves made of the following materials are suitable:

PVC: Penetration time >480 min - Recommended thickness: 0,5 mm

Butyl rubber: Penetration time >480 min - Recommended thickness: 0,5 mm

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)

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Eye/face protection

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Safetyglasses

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

Colour:

Light yellow

Odour:

Characteristic

Odour threshold:

Not determined.

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

150-172 °C

Flammability

Not applicable.

Lower and upper explosion limit

Lower:

1.4 Vol %

Upper:

8.1 Vol %

Flash point (CCMP):

65 °C

Auto-ignition temperature:

Product is not selfigniting.

Decomposition temperature:

Not determined.

pH at 20 °C

9.4

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:

1.1 hPa

Density and/or relative density

Density at 20 °C:

1.038 g/cm³

Relative density

Not determined.

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.

Change in condition

Evaporation rate

Not determined.

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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	Void
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 No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

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.

LD/LC50 values relevant for classification:

Oral	LD50	>2000 mg/kg bw (Rat)
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123-42-2 Diacetone alcohol

Oral	LD50	4000 mg/kg bw (Rat)
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Dermal	LD50	13630 mg/kg bw (rab)
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Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

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 May cause respiratory irritation.

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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.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

LC50/96h >100 mg/l (Leuciscus Idus)

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.

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.

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SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID/ADN, IMDG, IATA Void

14.2 UN proper shipping name
ADR/RID/ADN, IMDG, IATA Void

14.3 Transport hazard class(es)
ADR/RID/ADN, IMDG, IATA
Class Void
ADN/R Class: Void
-

14.4 Packing group
ADR/RID/ADN, IMDG, IATA Void

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

UN "Model Regulation": Void

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.

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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:** 1**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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – 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.**

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