

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : SANIMATIC
Product code: refer to sales department

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

Mixture of alcohols

Sectors of use:

Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities[PROC8A], Non industrial spraying[PROC11], Application with rollers or brushes [PROC10]

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy
Tel. +39.030.2307.1 Fax +39.030.2307281
E-mail: info@aeb-group.com - Internet: www.aeb-group.com
E-mail tecnico competente/technical dept.: sds@aeb-group.com

AEB USA
111 N Cluff Avenue
Lodi CA 95240 (USA)
Tel: +1 2096258139 Fax: +1 2092248953
Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD
18 Track Crescent, Cor. Station Road
Montague Gardens 7441
Cape Town (South Africa)
Tel.: +27 215512700 - Fax: +27 (0) 215511919
Email: info@aeb.co.za - Internet: www.aeb-group.com

AEB OCEANIA PTY LTD
178A Wakaden Street
Griffith NSW 2680
T: 1300 704 971
Email: aebocania@aeb-group.com - Internet: www.aeb-group.com

Produced by
AEB SpA
Via Vittorio Arici 104 S. Polo
25134 Brescia

1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

AEB BIOCHEMICAL USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS02, GHS07

Hazard Class and Category Code(s):

Flam. Liq. 3, Eye Irrit. 2

Hazard statement Code(s):

H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

The product is a liquid that ignites at temperatures above 23°C if it exposed to an ignition source.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS02, GHS07 - Warning

Hazard statement Code(s):

H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P337+P313 - If eye irritation persists: Get medical advice/attention.



P370+P378 - In case of fire: Use water spray, CO₂, foam, chemical powders to extinguish.

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards
For professional use only

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Ethanol	$20,5 \leq x < 28,5$	Flam. Liq. 2, H225; Eye Irrit. 2, H319	603-002-00-5	64-17-5	200-578-6	01-2119457 610-43-XXX X
Propan-2-ol	$3 \leq x < 6$	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	603-117-00-0	67-63-0	200-661-7	01-2119457 558-25-XXX X
Benzyl-C12-14-alkyldimethylamm onium chlorides	$0,1 \leq x < 0,2$	Acute Tox. 4, H302; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 10		85409-22-9	287-089-1	01-2119970 550-39-XXX X

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, consult a doctor. Wash the contaminated garments before reusing them.

INHALATION: Bring the subject to fresh air. If breathing is difficult, call a doctor immediately.

INGESTION: Consult a doctor immediately. Induce vomiting only upon medical advice. Do not give anything by mouth if the person is unconscious and if not authorized by the doctor.

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

No specific information on symptoms and effects caused by the product is known.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinguishing media are: carbon dioxide, foam, chemical powder. For leaks and spills of the product that have not ignited, the water spray can be used to disperse the flammable vapors and protect the people involved in stopping the leak.

NON-SUITABLE EXTINGUISHING MEDIA

Do not use water jets. Water is not effective for extinguishing the fire, however it can be used to cool closed containers exposed to flames, preventing bursts and explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Overpressure can occur in containers exposed to fire with the risk of explosion. Avoid breathing combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear the complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to the regulations in force.

EQUIPMENT Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant (EN469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provide a sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material or suck it.

Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Ensure adequate ventilation of the area affected by the loss. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

Wear protective gloves/protective clothing/eye protection/face protection.

Do not smoke at work

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Keep containers tightly closed.

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources. (7-30°C)

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed. (7-30°C)

See the annex exposure scenario.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

=====

Related to contained substances:

propan-2-ol:

TWA/8h

(mg/m³ / ppm)

AGW Deutschland (500/200)

MAK Deutschland (500/200)

VLA Espana (500/200)

VLEP France (x/x)

WEL United Kingdom (999/400)

TLV Ελλάδα (980/400)

AK Magyarorszag (500/x)

RD Lietuva (350/150)

TLV Romania (200/81) pelle

MV Slovenija (500/200)

TLV-ACGIH (492/200)

STEL/15min

(mg/m³ / ppm)

AGW Deutschland (1000/400)

MAK Deutschland (1000/400)

VLA Espana (1000/400)

VLEP France (980/400)

WEL United Kingdom (1250/500)

TLV Ελλάδα (1225/500)

AK Magyarorszag (2000/x)

RD Lietuva (600/250)

TLV Romania (500/203) pelle

MV Slovenija (2000/800)

TLV-ACGIH (983/400)

- Substance: propan-2-ol

DNEL

Systemic effects Long term Workers inhalation = 500 (mg/m³)

Systemic effects Long term Workers dermal = 888 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 89 (mg/m³)

Systemic effects Long term Consumers dermal = 319 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 26 (mg/kg bw/day)

PNEC

Sweet water = 140,9 (mg/l)

sediment Sweet water = 552 (mg/kg/sediment)

Sea water = 140,9 (mg/l)

sediment Sea water = 552 (mg/kg/sediment)

STP = 2,251 (mg/l)

ground = 28 (mg/kg ground)

- Substance: Benzyl-C12-14-alkyldimethylammonium chlorides

DNEL

Systemic effects Long term Workers inhalation = 3,96 (mg/m³)

Systemic effects Long term Workers dermal = 5,7 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,64 (mg/m³)

Systemic effects Long term Consumers dermal = 3,4 (mg/kg bw/day)

Local effects Long term Workers inhalation = 3,96

PNEC

Sweet water = 0,0009 (mg/l)

sediment Sweet water = 12,27 (mg/kg/sediment)
Sea water = 0,00096 (mg/l)
sediment Sea water = 13,09 (mg/kg/sediment)
intermittent emissions = 0,00016 (mg/l)
STP = 0,4 (mg/l)
ground = 7 (mg/kg ground)

8.2. Exposure controls



Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3) or other protective equipment, according to the instructions of the employer

(ii) Other

When handling the pure product, wear full protective clothing (generic workwear / antacid, safety shoes S3-EN ISO 20345) or other protective equipment, according to the instructions of the employer

(c) Respiratory protection

Not needed for normal use.

During manual operations in case of insufficient ventilation, use mask with gas filters and onorganic vapors - Brown , A (EN 143) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	clear colorless liquid	
Odour	prickly	

Physical and chemical properties	Value	Determination method
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
pH	7.0 ± 1.0 (20 ° C)	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flash point	26 ° C	
Evaporation rate	not determined as it is considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as it is considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Vapour density	not determined as it is considered not relevant for the characterization of the product	
Relative density	0.93 ± 0.05 (20 ° C)	
Solubility	in water	
Water solubility	miscible in all proportions	
Partition coefficient: n-octanol/water	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
Viscosity	not determined as it is considered not relevant for the characterization of the product	
Explosive properties	not determined as it is considered not relevant for the characterization of the product	
Oxidising properties	not determined as it is considered not relevant for the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage

10.3. Possibility of hazardous reactions

Vapors may form explosive mixtures with air.

INCI: ETHANOL Alcohol: risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulfur monofluoride, acetic anhydride (with acids), concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, acid nitric, silver and nitric acid, silver nitrate, silver nitrate and ammonia, silver oxide and ammonia, strong oxidizing agents, nitrogen dioxide. May react dangerously with: bromine acetylene, chlorine acetylene, bromine trifluoro, chromium trioxide, chromyl chloride, oxiranes, fluorine, potassium ter-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium chloride (IV), iodide of zirconium (IV). Forms explosive mixtures with air.

10.4. Conditions to avoid

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any source of ignition. INCI: ETHANOL Alcohol: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, potentially harmful gases and vapors can be released

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 263.157,9 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Etanolo: Ingestion - LD50 rat (mg/kg/24h bw): 1500

Skin contact - LC50 rat / rabbit (mg/kg/24h bw): n.d.

Inhalation - LD50 rat (mg/l/4h): >50

iso-propanolo: Ingestion - LD50 ratto (mg/kg/24h bw): 4710

Skin contact - LC50 rat /rabbit (mg/kg/24h bw):12800

Inhalation - LD50 rat(mg/l/4h): 72.6

C12-14 Alchilidimetilbenzilammonio cloruro: Ingestion - LD50 rat (mg/kg/24h bw): 2000

Skin contact - LC50 rat /rabbit (mg/kg/24h bw): n.d

Inhalation - LD50 ratto (mg/l/4h): n.d.

Ethanol: Ingestion - LD50 rat (mg / kg / 24h bw): 1500

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / l / 4h):> 50

propan-2-ol: Ingestion - LD50 rat (mg / kg / 24h bw): 4710

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): 12800

Inhalation - LD50 rat (mg / l / 4h): 72.6

Benzyl-C12-14-alkyldimethylammonium chlorides: Ingestion - LD50 rat (mg / kg / 24h bw): 2000

Contact with skin - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / l / 4h): nd

(b) skin corrosion/irritation Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Corrosivo

Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Corrosivo

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Corrosive

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Corrosive

Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: corrosive

Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Provoca gravi lesioni oculari - If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours.

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes serious eye damage

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes serious eye damage

(d) respiratory or skin sensitization: Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Not sensitizing

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Not sensitizing

(e) germ cell mutagenicity: Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Non mutagenic

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Not mutagenic

(f) carcinogenicity: Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Non cancerogenic

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Not carcinogenic

(g) reproductive toxicity: Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Non toxic

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Non-toxic

(h) specific target organ toxicity (STOT) single exposure: Etanolo: Does not meet the classification criteria for this hazard class

iso-propanolo: Does not meet the classification criteria for this hazard class

C12-14 Alchildimetilbenzilammonio cloruro: Non available

Ethanol: Does not meet the classification criteria for this hazard class

propan-2-ol: Does not meet the classification criteria for this hazard class

Benzyl-C12-14-alkyldimethylammonium chlorides: Not available
(i) specific target organ toxicity (STOT) repeated exposure Etanol: Does not meet the classification criteria for this hazard class
iso-propanolo: Does not meet the classification criteria for this hazard class
C12-14 Alchildimetilbenzilammonio cloruro: Not available
Ethanol: Does not meet the classification criteria for this hazard class
propan-2-ol: Does not meet the classification criteria for this hazard class
Benzyl-C12-14-alkyldimethylammonium chlorides: Not available
(j) aspiration hazard: Etanol: Does not meet the classification criteria for this hazard class
iso-propanolo: Does not meet the classification criteria for this hazard class
C12-14 Alchildimetilbenzilammonio cloruro: Non available
Ethanol: Does not meet the classification criteria for this hazard class
propan-2-ol: Does not meet the classification criteria for this hazard class
Benzyl-C12-14-alkyldimethylammonium chlorides: Not available

=====
Related to contained substances:
Ethanol:
LD50 (rat) Oral (mg/kg body weight) = 6200

propan-2-ol:
LD50 (rat) Oral (mg/kg body weight) = 4710
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 12800
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 72,6

SECTION 12. Ecological information

12.1. Toxicity

=====
Related to contained substances:
Ethanol:
Acute toxicity - fish LC50 (mg / l / 96h): 13000 Salmo gairdneri
Acute toxicity - shellfish EC50 (mg / l / 48h): 12300 Daphnia magna
Chronic toxicity - fish NOEC (mg / l): nd
Chronic toxicity - crustaceans NOEC (mg / l): 10 Daphnia magna (reproduction, 21g)
Chronic toxicity NOEC algae (mg / l): 3200 Skeletonema costatum (5g)

propan-2-ol:
Not available

Benzyl-C12-14-alkyldimethylammonium chlorides:
Acute toxicity - Fish - Danio rerio LC50 (mg / l / 96h): 1.0
Acute toxicity - Crustaceans - Daphnia magna EC50 (mg / l / 48h): 0.0058
Acute toxicity - Algae / Aquatic plants - Selenastrum capricornutum EC50 (mg / l / 72h) 0.049 Chronic toxicity -
Crustaceans - NOEC (mg / l): 0.025
Acute toxicity M-factor = 10

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

=====
Related to contained substances:
Ethanol:
Easily biodegradable

propan-2-ol:
Rapidly degradable

Benzyl-C12-14-alkyldimethylammonium chlorides:
Rapidly degradable > 80% - OECD TG 301 A

12.3. Bioaccumulative potential

=====
Related to contained substances:
Ethanol:
Not available

propan-2-ol:
Partition coefficient: n-octane / water 0.05

Benzyl-C12-14-alkyldimethylammonium chlorides:
Information not available

12.4. Mobility in soil

=====
Related to contained substances:
Ethanol:
Not available

propan-2-ol:
Not available

Benzyl-C12-14-alkyldimethylammonium chlorides:
Information not available

12.5. Results of PBT and vPvB assessment

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partly contains this product must be assessed according to the laws in force. Disposal must be entrusted to an authorized waste management company, in compliance with national and local regulations. Waste transportation may be subject to ADR. CONTAMINATED PACKAGING Contaminated packaging must be sent for recovery or disposal in

compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 1170

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packaging placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg



14.2. UN proper shipping name

ADR/RID/IMDG: ETANOLO (ALCOL ETILICO) o ETANOLO IN SOLUZIONE (ALCOL ETILICO IN SOLUZIONE)

ADR/RID/IMDG: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

ICAO-IATA: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 3

ADR/RID/IMDG/ICAO-IATA: Label : 3

ADR: Tunnel restriction code : D/E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-E, S-D

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : No

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable

Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC

Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC
Reg. EC 648/04: see 2.2
Reg. (EU) n. 1169/2011: see 2.2

Seveso category:
P5c - FLAMMABLE LIQUIDS

REGULATION (EU) No 1357/2014 - waste:
HP14 - Ecotoxic

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 2.1. Classification of the substance or mixture, 2.2. Label elements. 8.1. Control parameters

Description of hazard statements set out in paragraph 3

H225 = Highly flammable liquid and vapour.
H319 = Causes serious eye irritation.
H336 = May cause drowsiness or dizziness.
H302 = Harmful if swallowed.
H314 = Causes severe skin burns and eye damage.
H318 = Causes serious eye damage.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.
Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008):

Physical hazards: On the basis of experimental data
Other hazards: Calculation Method

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)
CL50/LC50: Lethal Concentration 50
DL50/LD50: Lethal Dose 50
COD: Chemical Oxygen Demand
DNEL: Derived No Effect Level
EC50: half maximal Effective Concentration
ERC: Environment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
- <https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: labelling variation



AISE GEIS.8a.1.a.v1



Version: 1.0, May 2014









Nederlandse Vereniging van Zeefabrikanten

Transfer of professional product to a container (bottle/bucket/machine)

Operational conditions	
Maximum duration	50 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles. See Section 8 of the SDS of this product for specifications.
	  <p>Training of the worker in relation to proper use and maintenance of the PPE must be ensured.</p>

Good practise advice	
Don't eat or drink, don't smoke, no open flame	  
Wash hands after use Avoid contact with damaged skin Do not mix with other products	  
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Enviromental measures

Prevent that the undiluted product reaches surface waters.

Properties of product composition

In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.

The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.

Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.

This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.

Use descriptors

SU 22	Professional use
PC 35	Washing and cleaning product
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.


Disclaimer: This is a generic document for communicating conditions of safe use of a product. If a GEIS code is mentioned in Section 1 of the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the GEIS CSP documents is safe, according to the GEIS Formulator Guidance. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.



Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following GEIS conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Generic Exposure Information Sheets should always be considered in combination with the SDS and the label of the product. The GEIS Guidance for End Users provides more information.

The A.I.S.E. or the NVZ are under no conditions liable for any damage, no matter of what kind, which is the direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

AEB ES.8a.1.a.v1*Version: 1.0, May 2014***Transfer of professional product to a container (bottle/bucket/machine)**

Operational conditions	
Maximum duration	50 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles, work clothes, safety shoes. See Section 8 of the SDS of this product for specifications.
	
	Training of the worker in relation to proper use and maintenance of the PPE must be ensured.

Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Enviromental measures

Prevent that the undiluted product reaches surface waters.

Properties of product composition

In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.

The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.

Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.

This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.

Use descriptors

SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

Disclaimer: This is a generic document for communicating conditions of safe use of a product the employer of workers that use products that are assessed as safe remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Information Sheets should always be considered in combination with the SDS and the label of the product.




AISE GEIS.10.1.b.v1



Version: 1.0, May 2014



Brushing a concentrated professional product

Operational conditions	
Maximum duration	220 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles. See Section 8 of the SDS of this product for specifications.
	 <p>Training of the worker in relation to proper use and maintenance of the PPE must be ensured.</p>

Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Environmental measures	
Prevent that the undiluted product reaches surface waters.	

Properties of product composition

In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.

The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.

Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.

This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.

Use descriptors

SU 22	Professional use
PC 35	Washing and cleaning product
PROC 10	Roller application or brushing
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.


Disclaimer: This is a generic document for communicating conditions of safe use of a product. If a GEIS code is mentioned in Section 1 of the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the GEIS CSP documents is safe, according to the GEIS Formulator Guidance. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.



Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following GEIS conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Generic Exposure Information Sheets should always be considered in combination with the SDS and the label of the product. The GEIS Guidance for End Users provides more information.

The A.I.S.E. or the NVZ are under no conditions liable for any damage, no matter of what kind, which is the direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

AEB ES.10.1.b.v1*Version: 1.0, May 2014***Brushing a concentrated professional product**

Operational conditions	
Maximum duration	220 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles, safety shoes and work clothes. See Section 8 of the SDS of this product for specifications.
	
	Training of the worker in relation to proper use and maintenance of the PPE must be ensured.

Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Environmental measures	
Prevent that the undiluted product reaches surface waters.	

Properties of product composition	
In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.	
The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.	
Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.	
This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.	

Use descriptors	
SU 3	Industrial uses.
PC 35	Washing and cleaning product
PROC 10	Roller application or brushing
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

Disclaimer: This is a generic document for communicating conditions of safe use of a product the employer of workers that use products that are assessed as safe remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Information Sheets should always be considered in combination with the SDS and the label of the product.




AISE GEIS.11.1.b.v1



Version: 1.0, May 2014



(Trigger) spraying of a professional product

Operational conditions	
Maximum duration	50 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles. See Section 8 of the SDS of this product for specifications.
	
	Training of the worker in relation to proper use and maintenance of the PPE must be ensured.

Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Enviromental measures

Prevent that the undiluted product reaches surface waters.

Properties of product composition	
In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.	
The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.	
Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.	
This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.	

Use descriptors	
SU 22	Professional use
PC 35	Washing and cleaning product
PROC 11	Non-industrial spraying
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.


Disclaimer: This is a generic document for communicating conditions of safe use of a product. If a GEIS code is mentioned in Section 1 of the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the GEIS CSP documents is safe, according to the GEIS Formulator Guidance. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.



Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following GEIS conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Generic Exposure Information Sheets should always be considered in combination with the SDS and the label of the product. The GEIS Guidance for End Users provides more information.

The A.I.S.E. or the NVZ are under no conditions liable for any damage, no matter of what kind, which is the direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

AEB ES.11.1.b.v1*Version: 1.0, May 2014***(Trigger) spraying of a professional product**

Operational conditions	
Maximum duration	50 minutes per day.
Process conditions	Process is carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45 degrees Celcius is used.
	No LEV needed; good general ventilation at workplace is sufficient.

Risk management measures	
Conditions and measures related to personal protection equipment (PPE), hygiene and health evaluation	Use gloves and safety goggles, safety shoes and work clothes. See Section 8 of the SDS of this product for specifications.
	
	Training of the worker in relation to proper use and maintenance of the PPE must be ensured.

Good practise advice	
Don't eat or drink, don't smoke, no open flame	
Wash hands after use Avoid contact with damaged skin Do not mix with other products	
Spillage instructions	Dilute with water and mop up.
Additional good practice advice	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the SDS of the used product.

Enviromental measures

Prevent that the undiluted product reaches surface waters.

Properties of product composition

In Section 2 of the SDS of products and on the label the classification of the undiluted product is provided.

The classification of a product is based on the classified ingredients in the products. All ingredients contributing to the classification of the mixture are mentioned in Section 3 of the SDS.

Relevant limit values of the ingredients on which the exposure assessment is based, are stated in Section 8 of the SDS.

This product may contain sensitizing ingredients, that may cause an allergic reaction in certain people. Section 2 of the SDS states these ingredients, when applicable to the product.

Use descriptors

SU 3	Industrial uses
PC 35	Washing and cleaning product
PROC 11	Non-industrial spraying
ERC 8a	Wide dispersive indoor use of processing aids in open systems
	If appropriate AISE SpERC 8a.1.a.v2 may apply: Wide dispersive use in "Down the drain" cleaning and maintenance products that are treated by a municipal STP.

Disclaimer: This is a generic document for communicating conditions of safe use of a product the employer of workers that use products that are assessed as safe remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, Information Sheets should always be considered in combination with the SDS and the label of the product.