

SDS-06-0003

AZOWIPE AND AZO SPRAY- SAFETY DATA SHEET

Revision Date: 17-Apr-2023 Revision Number: 21

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

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

1.1 Product identifier

Product Name AZOWIPE, AZOWIPETTE, AZOWIPE STERILE, AZOWIPE EQUIPMENT CE, AZO

SPRAY

Product code 81103, 81103E, 81104, AZ250W, 81148, 81160, 81138, AZ100WNCE,

AZ250WCE, 81120

UFI G200-U0CW-500R-QDED

1.2 Relevant identified uses of

the substance or mixture and uses advised against

Hard surface disinfectant wipes and spray, particularly for non-invasive

medical devices.

Use against: Invasive medical devices.

1.3 Details of the supplier of the safety data sheet

UK:

Vernacare Limited Matrix Park, 1 Western Avenue,

Chorley, Lancashire United Kingdom PR7 7NB

Telephone: +44 0 1772 299900 Telefax: +44 0 1772 299901 E-mail: Raga.hcs@vernacare.com

1.4 Emergency telephone number

+44 0 1772 299900 (UK business hours 08:00-16:00)

UK: 111 (public NHS number for less urgent medical problems). Medical professionals can contact the National Poisons Information Service (NPIS):

0344 892 0111.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008, or GB equivalent (and its amendments) H225 Flam. Liq. 2 Highly flammable liquid and vapour.

H319 Eye Irrit. 2 Causes serious eye irritation

H336 STOT SE 3 May cause drowsiness or dizziness

See Section 16 'Other information' for full text of the H-statements.



2.2 Label elements



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Precautionary statements

EUH 066: Repeated exposure may cause skin dryness or cracking.

prevention P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P233: Keep container tightly closed.

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

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

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

response 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 CENTRE/doctor if you feel unwell.

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

storage P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

disposal P501: Dispose of contents and container in accordance with local regulations.

Supplemental information None

2.3 Other hazards The product does not contain any ingredient identified as having endocrine

disrupting properties according to Delegated Regulation (EU) 2017/2100 or

Regulation (EU) 2018/605.

The product does not contain any ingredient as being assessed as PBT or vPvB

according to Regulation (EU) 1907/2006.



SECTION 3: Composition/information on ingredients

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table.

3.1 Substances

Not applicable

3.2 Mixtures ^a

Declarable components	Conc. (%)	EC No.	CAS No.	REACH Reg. No.	Classification, supplemental hazards, ATE, M-factor, and SCL
Propan-2-ol ^b	C≤ 70.0%	200-661-7	67-63-0		H225 Flam. Liq. 2 H319 Eye Irrit. 2 H336 STOT SE 3 H336

^a See Section 16 'Other information' for full text of the H-statements.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
	Do not leave affected person unattended.
	Remove victim out of the danger area.
	Keep affected person warm, still and covered.
	Remove the affected person from the danger zone and lay down.
Inhalation	Remove person to fresh air and keep comfortable for breathing. No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.
Skin	Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.
Eye	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Never give anything by mouth to an unconscious person or a person with cramps. IF SWALLOWED: Rinse mouth.

It is the responsibility of the user to verify that they are using the current released version HARD COPY UNCONTROLLED UNLESS STAMPED, SIGNED AND DATED BY AUTHORISED PERSONEL

Do NOT induce vomiting.

^b Substance for which maximum workplace exposure limits are available.



Self-protection of the first

aider:

Pay attention to self-protection!.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any

immediate medical attention and special

treatment needed

Notes for the doctor: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Foam.

> Extinguishing powder. Carbon dioxide (CO2).

Sand.

Unsuitable Strong water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters Additional Information

Wear a self-contained breathing apparatus and chemical protective clothing.

Do not inhale vapours and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done

Use caution when applying carbon dioxide in confined spaces. carbon dioxide

can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow

entering drains or surface water.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

Remove persons to safety.

Provide adequate ventilation.

Use appropriate respiratory protection.

6.2 Environmental precautions

Ensure that waste is collected and contained.

Contain leaks or spills within cabinets with removable trays.

6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental

regulations.

Ventilate affected area.



Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or

universal binding agents).

Wipe up with absorbent material (eg. cloth, fleece).

6.4 Reference to other sections

For safe handling, see section 7.

For recommended personal protective equipment, see Section 8.

For disposal considerations, see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Use only outdoors or in a well-ventilated area.

PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.

Remove fume condensates periodically from extraction hoods, leads and other surfaces (wear personal protective clothing!) as there is a risk of catching fire.

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities.

Take precautionary measures against static discharges.

Wear personal protective clothing (see section 8).

Sewers and ducts must be protected against the entry of the product.

Provide adequate ventilation as well as local exhaustion at critical locations.

Vapours/aerosols should be exhausted directly at the point of origin.

Avoid breathing gas/fumes/vapour/spray.

Advices on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

Work in well ventilated zones or use proper respiratory protection.

In the immediate working surroundings there must be:

Provide eye shower and label its location conspicuously

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.

Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

Ground/bond container and receiving equipment.

 $\label{thm:condition} \textbf{Keep away from heat, hot surfaces, sparks, open flames and other ignition}$

sources. No smoking.

Store locked up.

Advice on joint storage:

Keep away from food, drink and animal feeding stuffs.

Keep away from clothing and other combustible materials.

Keep only in the original container in a cool, well-ventilated place, away from

highly flammable substances.



Further information on storage conditions:

Use explosion-proof electrical/ventilating/lighting/.../equipment.

Use only non-sparking tools.

7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure

Limits

Substance Value Unit Type

propan-2-ol

CAS: 67-63-0 (GB)

400 ppm Exposure limit (8 hours)

propan-2-ol

CAS: 67-63-0 (GB)

999 mg/m³ Exposure limit (8 hours)

propan-2-ol

CAS: 67-63-0 (GB)

500 ppm Exposure limit (15 minutes)

propan-2-ol

CAS: 67-63-0 (GB)

1,250 mg/m³ Exposure limit (15 minutes)

Biological limit values

Other: human health

(DNELs, DMELs)

Not available

Not available

Other: environmental

(PNEC)

Not available

8.2 Exposure controls

Engineering controls

Technical measures and the application of suitable work processes have

priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

Personal protective equipment

Suitable eye protection: Wear eye protection equipment.

Recommended eye protection articles: Eye glasses.

Hand protection: Suitable gloves type: Wear protective gloves.

Additional hand protection measures: Do not wear gloves near machines and

rotating tools. Use gloves only once.

Remark: When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the

specific working place concentration and quantity of

hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties

of the material must be taken into consideration.

Body protection: Suitable protective clothing: Lab coat.



Respiratory protection : Respiratory protection necessary at: If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus: Wear respiratory protection. Remark: The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits as specified by the manufacturer. Use only respiratory protection equipment with CEsymbol including four digit test number.

Environmental exposure controls

Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Physical state Liquid

Colourless - Clear (b) Colour

(c) Odour Alcohol-like

(d) Melting/freezing point Not available (e) Boiling point or initial

boiling point and boiling range

Not available

(f) Flammability Not available

(g) Lower and upper explosion No explosive properties

limit

Not available (h) Flash point 458 ± 5 °C (i) Auto-ignition temp.

Decomposition temp. Not available (j) (k) pH Not available

2.17 mm2/s (40.0 ± 0.5 °C) (1) Kinematic viscosity

Not available (m) Solubility

(n) Partition coefficient, n-

octanol/water (log value)

Not available

(o) Vapour pressure Not available

(p) Density or relative density 0.866 g/ml (20.0 ± 0.5 °C)

(q) Relative vapour density Not available (r) Particle characteristics Not available 9.2 Other information Not available



Other security characteristics Acidity/alkalinity (Azospray): Neat formulation at 20 °C = 8.47.

1% dilution at 20 °C = 5.68.

Acidity/alkalinity (Azowipe): Neat formulation at 20 °C = 6.48

1% dilution at 20 °C = 5.83

Surface tension: Mean surface tension at $20.0 \pm 0.5 \,^{\circ}\text{C} = 72. \, \text{mN/m}$

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous

reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid No data available

10.5 Incompatible materials No data available

10.6 Hazardous decomposition

products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute oral toxicity (a) Acute toxicity

Data for mixture: The product is not classified.

Substances: propan-2-ol (CAS: 67-63-0)

Species: Rat Sex: Not available

Guideline: OECD Guideline 401 (Acute Oral Toxicity)

Subendpoint	Operator	Value	Unit
LD50:	=	5840	mg/kg

Conclusion: Interpretations of results GHS criteria not met [1]/No adverse

effect observed LD50 5 840 mg/kg bw

Acute dermal toxicity

Data for mixture: The product is not classified.

Substances: propan-2-ol (CAS: 67-63-0)

Species: Rabbit Sex: Not available

Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Exposure duration/value: Not available Exposure duration/unit: Not available

Subendpoint	Operator	Value	Unit
LD50:	=	13900	mg/kg



Conclusion : Interpretations of results GHS criteria not met [1]/No adverse effect observed LD50 13900 mg/kg bw

Acute inhalation toxicity

Data for mixture: The product is not classified.

Substances: propan-2-ol (CAS: 67-63-0)

Species : Rat Sex : Not available

Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Route of administration: Not available

Exposure duration/value: 6h

Subendpoint	Operator	Value	Unit
LC50:	=	25	mg/L

 $Conclusion: Interpretations \ of \ results \ GHS \ criteria \ not \ met \ [1]/Adverse \ effect$

observed LC50 25 mg/L air

(b) Skin corrosion/irritation

Data for mixture: The product is not classified.

Substances: propan-2-ol (CAS: 67-63-0)

Test Type: Not available Species: Not available Sex: Not available

Guideline: OECD Guideline 404 (Acute Dermal Irritation/ Corrosion))
Degreases the skin which may cause dry and rough. Prolonged or repeated

skin contact may result in dermatitis.

Exposure duration/value: Not available

Exposure duration/unit: Not available

Conclusion: No skin irritation

(c) Serious eye damage/irritation

Data for mixture: The product is classified Eye Irrit. 2 according to the

referenced regulation. Causes serious eye irritation.

Substances: propan-2-ol (CAS: 67-63-0)

Test Type: Not available Species: Not available Sex: Not available

Guideline: OECD Guideline 405 (Acute Eye Irritation/Corrosion). Splashes in

eyes may cause strong pain. Vapour acts irritant.

Type of method: Not available Concentration: Not available Conclusion: Eye irritation

(d) Respiratory or skin sensitisation

Data for mixture: The product is not classified.

Substances: propan-2-ol (CAS: 67-63-0)

Test Type: Not available Species: Not available Sex: Not available

Guideline: OECD Guideline 406 (Skin Sensitisation)



		Exposure duration/value : Not available Exposure duration/unit : Not available Concentration : Not available Conclusion: Not sensitizing (Buehler Test; Dermal; Guinea pig)
(e)	Germ cell mutagenicity	Based on available data, the classification criteria are not met. No relevant ingredient has been classified for this effect.
(f)	Carcinogenicity	Based on available data, the classification criteria are not met. No relevant ingredient has been classified for this effect.
(g)	Reproductive toxicity	Based on available data, the classification criteria are not met. No relevant ingredient has been classified for this effect.
(h)	STOT-single exposure	The product is classified STOT SE 3_H336 according to the referenced regulation. May cause drowsiness or dizziness. Substances: propan-2-ol (CAS: 67-63-0)
(i)	STOT-repeated exposure	Based on available data, the classification criteria are not met. No relevant ingredient has been classified for this effect.
(j)	Aspiration hazard	Based on available data, the classification criteria are not met. Product is an aqueous solution.
11.2	Information on other hazards	Not available.

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

Acute aquatic toxicity

Substances: propan-2-ol (CAS: 67-63-0)

Animal/category: Fish Species: Not available Test Duration: 96h Guideline: OECD 203

Subendpoint	Value	Unit
LC50:	9640	mg/L

Remarks: Not available

Animal/category: Daphnia and other aquatic Invertebrates

Species: Not available Test Duration: 24h Guideline: OECD 202

Subendpoint	Value	Unit
LC50:	9714	mg/L

Remarks: Not available

Animal/category : Algae



Species: Not available
Test Duration: 72h
Guideline: Not available

Subendpoint	Value	Unit
EC50:	>100	mg/L

Remarks: Not available

Animal/category : Algae Species : Not available Test Duration : 8 days Guideline : Not available

Subendpoint	Value	Unit
LOEC:	1000	mg/L

Remarks: Not available

Animal/category: Bacteria Species: Not available Guideline: Not available Exposure: Not available

Subendpoint	Value	Unit
EC50	>100	mg/L

Remarks: No harming action

12.2	Persistence and
	degradability

The product has not been tested.

12.3 Bioaccumulative potential Th

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB

assessment

No substances have been identified with PBT or vPvB properties according $\,$

to Regulation (EU) 1907/2006

12.6 Endocrine disrupting

properties

No substances have been identified with endocrine disrupting properties according to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

12.7 Other adverse effects

The mixture is not classified as hazardous to the ozone layer.

SECTION 13: Disposal considerations

Waste codes/waste designations according to EWC/AVV:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options:

Appropriate disposal/Product:

Waste requiring special supervision. Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

Appropriate disposal/Package:



Non-contaminated packages must be recycled or disposed of. Contaminated packing must be completely emptied and can be reused after proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

Remark:

For recycling, contact manufacturer. Collect the waste separately. Consult the appropriate authorities about waste disposal. Do not mix with other wastes. The waste is to be kept separate from other types of waste until its disposal. Concerning the waste it has to be checked, whether a transport authorisation is required.

SECTION 14: Transport information

For wipes:

i or wipes.				
	Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO-TI/IATA-DGR):
14.1 UN Number	3175	3175	3175	3175
14.2 UN proper shipping name	SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C	SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C	SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C	SOLIDS or mixtures of solids (such as preparations and wastes) CONTAININGFLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C
14.3 Transport hazard class(es)	4.1	4.1	4.1	4.1
14.4 Packing group	II	II	II	II

<u>For Spray</u>	Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO-TI/IATA-DGR):
14.1 UN Number	1219	1219	1219	1219
14.2 UN proper shipping name	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL	ISOPROPANOL
14.3 Transport hazard class(es)	FLAMMABLE LIQUID	FLAMMABLE LIQUID	FLAMMABLE LIQUID	FLAMMABLE LIQUID
14.4 Packing group	II	II	II	П



14.5 Environmental hazards Not available

14.6 Special precautions for

user

Not available

14.7 Maritime transport in bulk

according to IMO instruments

Not available

Additional information

Not available

SECTION 15: Regulatory information

15.1 Safety, health and environmentalThis SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

environmental regulations/legislation specific for the substance

This

This SDS has been established in accordance with CLP regulation, including its

amendments: CLP Regulation EC No. 1272/2008.

15.2 Chemical safety

or mixture

assessment

No Chemical Safety Assessment has been carried out for this

substance/mixture by the supplier.

SECTION 16: Other information

Revisions This revision of this SDS is compliant with Classification of the mixture is in

accordance with the evaluation method described in Regulation (EC and as amended by GB-CLPB) No 1272/2008. Complies with ATP 18, Regulation (EU)

n°2022/692.

Abbreviations ATE: Acute toxicity estimate.

DNEL: Derived no-effect level.

DMEL: Derived minimum effect level.

OECD: Organisation for Economic Co-operation and Development.

PBT: Persistent, bioaccumulative, and toxic.
PNEC: predicted no-effect concentration.
vPvB: Very persistent, very bioaccumulative.
CAS: Chemical Abstract Service Number.
IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD: Dangerous Preparation Directive. UN number: United Nations number. No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in

barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage

of dangerous goods by rail.

CLP: Classification, labelling and packaging.

References Search for chemicals; available at the European Chemicals Agency website:

http://echa.europa.eu/.

Basis of classification The mixture is classified on the basis of available information on the

ingredients.



List of hazard statements	H225	Flam. Liq. 2	Highly flammable liquid and vapour.
	H319	Eye Irrit. 2	Causes serious eye irritation
	H336	STOT SE 3	H336 May cause drowsiness or dizzine

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsability of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.