

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Tradename

ASE Disinfect (Concentrate)

▼ Product no.

ASED-CON-V

REACH registration number

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Other means of identification

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

Cleaning product

Relevant identified uses of the substance or mixture (REACH) No special

Uses advised against No special

**1.3. Details of the supplier of the safety data sheet** Company and addressAir Spectrum Environmental Limited Spectrum House  
Checketts Lane Industrial Estate Worcester  
WR5 2HW

E-mail

info@AirSpectrum.com SDS date

2020-03-31

SDS Version 1.0

**1.4. Emergency telephonenumber**

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

**SECTION 2: Hazards identification**

## ▼ 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation. EyeDam.1; H318,

Causes serious eye damage. Aquatic Acute 1; H400, Very toxic to

aquatic life.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

▼ Hazard pictogram(s)


**▼ Signal word**

Danger

**▼ Hazard statement(s)**

Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

**Safety statement(s)**
**General**

P101, If medical advice is needed, have product container or label at hand. P102, Keep out of reach of children.

**▼ Prevention**

P280, Wear protective gloves/eye protection/protective clothing. P264, Wash hands/exposed areas thoroughly after handling. P273, Avoid release to the environment.

**▼ Response**

P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310, Immediately call a POISON CENTER/doctor.

**Storage**

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**▼ Disposal**

P501, Dispose of contents/container to an approved waste disposal plant.

**▼ Hazardous substances**

didecyldimethylammonium chloride

**2.3. Other hazards**
**Additional labelling**

Not applicable

**Additional warnings**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**SECTION 3: Composition/information on ingredients**
**▼ 3.2 Mixtures**

Product/Ingredient name	Identifiers	%w/w	Classification	Note
didecyldimethylammonium chloride	CAS No.: 7173-51-5 EC No.: 230-525-2  REACH No.: 01-2119945987-15-XXXX  IndexNo.: 612-131-00-6	<0.4	Skin Corr. 1B, H314 Aquatic Acute1, H400 Aquatic Chronic 2, H411 Acute Tox. 3, H301 Eye Dam. 1, H318	
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	CAS No.: 111-76-2  EC No.: 203-905-0  REACH No.: 01-	<0.4%	AcuteTox. 4, H302 AcuteTox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 AcuteTox. 4, H332	



	2119475108-36-XXXX Index No.:603-014-00-0		
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS No.: 68891-38-3 EC No.: 500-234-8 REACH No.: Index No.:	<0.4%	Skin Irrit. 2, H315 AquaticChronic3,H412 Eye Irrit. 2, H319
Tetrapotassium pyrophosphate	CAS No.: 7320-34-5 EC No.: 230-785-7 REACH No.: 01-2119489369-18-XXXX Index No.:	<0.4%	Eyelrrit.2,H319
propan-2-ol	CAS No.: 67-63-0 EC No.:200-661-7 REACH No.: IndexNo.:603-117-00-0	<0.4%	Flam. Liq. 2,H225 Eyelrrit.2,H319 STOT SE3,H336

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 See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

No special

### SECTION 4: First aid measures

#### ▼ 4.1. Description of first aid measures General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### ▼ Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### ▼ Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Not applicable

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**4.3. Indication of any immediate medical attention and special treatment needed IF exposed or concerned:**

Get immediate medical advice/attention.

**Information to medics**

Bring this safety data sheet or the label from this product.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Extinguish fire with carbonic acid, powder or foam. Do not use water, as this will spread the fire.

**▼ 5.2. Special hazards arising from the substance or mixture**

Fire will result in dense black smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds.

Nitrogen oxides.

Carbon oxides. Some

metal oxides.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24h service) in order to obtain further advice.

**SECTION 6: Accidental release measures****▼ 6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

**▼ 6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

**6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste.

See section on 'Exposure controls/personal protection' for protective measures.

**SECTION 7: Handling and storage****▼ 7.1. Precautions for safe handling**

It is recommended to install waste collection trays in order to prevent emissions to the wastewater system and surrounding environment i.e. Bunded areas in sealed containers. Re-entry time following application should be six hours after application or when the solution has dried completely.

Smoking, drinking and consumption of food is not allowed in the work area.

See section on 'Exposure controls/personal protection' for information on personal protection.

**▼ 7.2. Conditions for safe storage, including any incompatibilities**

Always store in containers of the same material as the original container.

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when

opened and tested periodically for the presence of peroxides. Do not exceed storage time limits. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Storage temperature**

Dry, cool and well ventilated

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2 and in accordance to the Supplier's dilution and application instructions.

**SECTION 8: Exposure controls/personal protection**

**▼ 8.1. Control parameters**

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 propan-2-ol  
 Long term exposure limit (8 hours): 400 ppm  
 Long term exposure limit (8 hours): 999 mg/m<sup>3</sup> Short term  
 exposure limit (15 minutes): 500 ppm  
 Short term exposure limit (15 minutes): 1250 mg/m<sup>3</sup>

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020)

**DNEL**

No data available No

**PNEC**

data available

**8.2. Exposure controls**

Compliance with the given occupational exposure limit values should be controlled on a regular basis.

**General recommendations**

Smoking, eating and drinking are not allowed in the work premises [Exposure scenarios](#)

There are no exposure scenarios implemented for this product.

**▼ Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

**▼ Appropriate technical measures**

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the workroom is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

**Hygiene measures**

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

**▼ Measures to avoid environmental exposure**

Keep damming materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment Generally**

Use only CE marked protective equipment.

**Respiratory Equipment**

Work situation	Recommended Filter type	Class	Colour	Standards

**Skin protection**

Work situation	Recommended	Type/Category	Standards

**Hand protection**

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Worksituation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
	Nitrile	0.4	>480	EN374-2, EN374-3, EN388


**Eye protection**

Worksituation	Recommended	Standards

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties Form**

Liquid

Colour

Testing not relevant or not possible due to nature of the product.

Odour

Testing not relevant or not possible due to nature of the product.

Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

pH

Testing not relevant or not possible due to nature of the product.

 Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to nature of the product.

Viscosity

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point (°C)

Testing not relevant or not possible due to nature of the product.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Evaporation rate (n-butylacetate = 100)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards Flash

point (°C)

&gt;100 °C

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

Explosive properties

Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

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Solubility



**Solubility in water**

Testing not relevant or not possible due to nature of the product. **n-octanol/water coefficient**

Testing not relevant or not possible due to nature of the product.

**Solubility in fat (g/L)**

Testing not relevant or not possible due to nature of the product.

**9.2. Other information**
**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No data available

**10.2. Chemical stability**

The product is stable under the conditions, noted in the section "Handling and storage".

**10.3. Possibility of hazardous reactions** No special

**10.4. Conditions to avoid** No special

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects** Acute toxicity

Product/Ingredient name	Species	Test	Route of exposure	Result
didecyldimethylammonium chloride	Rat	LD50	Oral	238 mg/kg
didecyldimethylammonium chloride	Rabbit	LD50	Dermal	3.342 mg/kg

**▼ Skin corrosion/irritation**

Product/Ingredient name	Species	Test	Duration	Observation Period	Irritation Parameter	Result
didecyldimethylammonium chloride	Rabbit	OECD 404	No data available.	No data	-	Adverse effect observed (Irritating)

Causes skin irritation.

**▼ Serious eye damage/irritation**

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

**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

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**Other information** No

special

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/Ingredient name	Species	Test	Duration	Result
didecyldimethylammonium chloride	Fish	LC50	96 hours	0.19 mg/l
didecyldimethylammonium chloride	Fish	NOEC	34 days	0.032 mg/l
didecyldimethylammonium chloride	Aquatic Invertebrates	EC50	48 hours	0.062 mg/l
didecyldimethylammonium chloride	Aquatic Invertebrates	NOEC	21 days	0.014 mg/l

### 12.2. Persistence and degradability

Product/Ingredient name	Biodegradability	Test	Result
didecyldimethylammonium chloride	Yes	OECD 301 B (CO2 Evolution Test)	72%

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

To the extent the material has not been subject to regular tests of peroxide formation the wastes shall be treated as explosive waste.

Product is covered by the regulations on hazardous waste.

EWC code

**Specific labelling**

Not applicable

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: Transport information**
**▼ 14.1 - 14.4**

This product is within scope of the regulations of transport of dangerous goods.

**▼ ADR/RID**

UN no.	Proper Shipping Name	Class	PG	Tunnel restriction code
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	III	3 (-)

**▼ IMDG**

UN no.	Proper Shipping Name	Class	PG	EmS
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	III	F-A, S-F

**▼ IATA**

Not applicable

**▼ Marine pollutant**

Yes

**▼ 14.5. Environmental hazards**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

**14.6. Special precautions for user** Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**▼ Restrictions for application**

No specific requirements

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**Demands for specific education** No

specific requirements

**SEVESO - Categories / dangerous substances:**


E1

**Additional information** Not

applicable

**▼ Sources**

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of

pregnant workers and workers who have recently given birth or are breastfeeding. The Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). Regulation (EC) 1907/2006 (REACH).

## 15.2. Chemical safety assessment No

### SECTION 16: Other information

- ▼ Full text of H-phrases as mentioned in section 3
- H314, Causes severe skin burns and eye damage.
  - H400, Very toxic to aquatic life.
  - H411, Toxic to aquatic life with long lasting effects.
  - H301, Toxic if swallowed.
  - H318, Causes serious eye damage.
  - H302, Harmful if swallowed.
  - H312, Harmful in contact with skin.
  - H315, Causes skin irritation.
  - H319, Causes serious eye irritation.
  - H332, Harmful if inhaled.
  - H412, Harmful to aquatic life with long lasting effects.
  - H225, Highly flammable liquid and vapour.
  - H336, May cause drowsiness or dizziness.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance

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VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

▼ Additional information

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The safety data sheet is validated by Technical

Manager

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.