HEALTH & SAFETY PRODUCT DATA SHEET

1 – IDENTIFICATION OF SUBSTANCE / PREPARATION & COMPANY

Identification of substance :

Identification of the preparation : qtx CLEANER

Relevant identified uses of the substance : Fluid used for maintenance & cleaning of Smoke , Fog Generators

Product Code : qtx CLEANER (Code : 160.670UK)

Packaging : Bottle of 250 ML

Identification of the company :

AVSL GROUP LTD
Containerbase, Barton Dock Road
Manchester , M41 7BQ - United Kingdom
Website : www.avslgroup.com

2 – COMPOSITION / INFORMATION ON THE COMPONENTS

Liquid formulation composed : 90 % of de-ionised and osmozed water (Cas N°7732-18-5) and 10 % o f a food additive solution (containing 6 % of acetic acid - Cas n°64-19-7)

Hazardous substances present : This preparation contains no hazardous substance in this category.

Other substances representing a hazard: No known substance in this category present.

Other substances with occupational exposure limits: No known substance in this category present.

3 – HAZARDS IDENTIFICATION

Classification of the substance or mixture accordance directives 67/548/CEE, 1999/45/CE and adaptations.
This mixture doesn't present a physical danger. Refer to the recommendations regarding the other products present on the site.
This mixture does not present a health hazard.
This mixture does not present a danger to the environment. No damage to the environment are not known or expected under normal use.

Labels elements

The mixture is a product for professional use.
The mixture is used as "cleaning fluid" for smoke generators

4 – FIRST AID MEASURES

Inhalation : Not applicable in liquid form, can be slightly irritating to the respiratory form of smoke in large quantities and confined - Remove from exposure and rest - Call a doctor if necessary.

Skin contact : Insignificant - but in case of prolonged and/or repeated skin contact may result in mild irritation
.

Eye contact : Can be irritating - Irrigate thoroughly with water for ten minutes at least.
Obtain medical attention if necessary.

Ingestion : Not applicable

Important symptoms and effects, both acute and delayed: No data are available

Indication of immediate medical attention and special treatment needed: Symptomatic treatment : /

5 – FIRE FIGHTING MEASURES

Rule One : Not flammable but in case , Use appropriated tools to fight small fires.
If necessary call the firemen.

Extinction ways: Carbon dioxide, dry powder, stream of water in function of the type of fire.

Appropriated dressing and breathing equipment against fire : Breathing apparatus, protective equipment of the skin, eyes and mucous membranes

6 – ACCIDENTAL RELEASE MEASURES

Safety precaution : Wear gloves and protection glasses.

Precautions to protect environment : the product is totally biodegradable

Cleaning : Not applicable

7 – HANDLING & STORAGE

Safety precautions: Do not mix with other products. Avoid thermal shocks . Avoid contact with eyes

Safe handling : Avoid contact with eyes
Ensure good ventilation of area

Storage : Store in original close container.
Store at ambient temperature .

8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits: Not relevant

Collective protection: Engineering measures: Use in well ventilated area

Personal protective equipment (PPE):

Respiratory protection: Not required under normal conditions of use

Hand Protection : Gloves suitable for the product: nitrile in prolonged exposure to the product.

Eye Protection : Not required under normal conditions of use

Skin Protection : Not required under normal conditions of use

9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance : Clear
Physical state : Liquid
Color : Colorless
Smell : Slightly acid odor and acre
Auto-ignition : Not applicable
Melting point : Not available
Boiling point : Not available
Flash point : None
Decomposition temperature: No data
Oxidizing properties: Not applicable
Water solubility : Completely miscible.
N-octanol/water partition coefficient: No data
Evaporation rate : No data
Flammability limits in air, lower, % by volume: Not applicable
Flammability limits in air, upper, % by volume: Not applicable
Vapour pressure: Not available
Vapour density: Like water
Percent volatile: Not available

10 – STABILITY AND REACTIVITY

Reactivity : No data are available.

Chemical stability : This mixture is stable according to the conditions of storage and handling recommendations.

Possibility of hazardous reactions : Not applicable

Incompatible materials: None known.

Conditions to avoid : Avoid freezing , excessive heat

Hazardous Decomposition Products: No data

11 – TOXICOLOGICAL INFORMATION

General Informations :

Inhalation :	Not applicable for the liquid product, in terms of employment, the fumes in high concentration in containment may be irritating to the respiratory tract.
Skin contact :	Primary irritation: not irritating to the skin. Repeated or prolonged contact with skin may cause dermatitis and dryness
Contact with the eyes:	May cause irritation.
Sensitization:	No sensitizing
Long Term Effects:	No data

CMR effects (carcinogenic, mutagenic, toxic for reproduction): / Not applicable

12 – ECOLOGICAL INFORMATION

Mobility: The product is water soluble and therefore highly mobile

Persistence and degradability : Largely biodegradable

Eco-toxicity: The product is not toxic to the aquatic organisms

13 – DISPOSAL CONSIDERATIONS

Waste, products unused : Comply with national and local regulations.
May be disposed of with household waste.
May be removed in the sewage system

Contaminated packaging: Completely empty the container. May be disposed of with household waste.

National and local provisions: See the Environmental Code

14 – TRANSPORT INFORMATIONS

Transport product in compliance with the provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport: Product not classified as dangerous goods transport

15 – REGULATORY INFORMATIONS

Regulations / legislation specific to the substance or mixture of safety, health and environment
This safety data sheet conforms to the requirements of EC Regulation 1907/2006 as amended by Regulation 453/2010/CE.

National Rules

User has to respect their national rules, especially to the COSHH, HSWA and MHSW.
Please make sure you read them.

16 – OTHER INFORMATIONS

Advise for Training :

No special training is necessary to use the product in the appropriated generators.
Only prepare the employees to a safety measures plan.

Major information sources used in this sheet :

- Toxicological files INRS
- Folders INRS
- International and national rules for transport of dangerous materials.

The working conditions of the user we are not known, the information contained in this safety data sheet are based on the state of our knowledge and on national and community regulations.
The mixture should not be used for other purposes than those specified under heading 1 without first obtaining written handling instructions.

It is always the responsibility of the user to take all necessary measures to meet the requirements of local laws and regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to this mixture and not as a guarantee of the properties of it.

HEALTH & SAFETY DATA SHEET

TITLE 1 : Identification of the Substance / Preparation and Company

1.1. Identification of the preparation

Product form:	Mixture
Product Name :	CLEANER FLUID - CODE 160.670UK - BOTTLE 250ML
Custom Code :	22090011

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

1.2.1. Relevant identified uses

Use of the substance / mixture:	Fluid maintenance to clean Smoke & Fog generators Professional use and general public use
1.2.2. Uses deprecated	No additional information available

1.3. Idendification of the company

AVSL GROUP LTD
Unit 2, Bridgewater Park
Taylor Road
Manchester - M417JQ-UK
Tel : +44 (0) 845 270 24 11 - Website : www.avsl.com

1.4. Emergency Telephone Number

Country	Company	Emergency Number
France	ORFILA	+33 (0) 1 45 42 59 59

TITLE 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] : Not Classified

Physicochemical harmful effects, for human health and the environment

To our knowledge, this product does not present any particular risk, subject to compliance with the general rules of industrial hygiene

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other Hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

TITLE 3 : Composition / information on ingredients

3.1. Substance Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

Product	Product Identifier	%	Classification according to Regulation EC No 1272/2008 (CLP)
OZMOSED WATER	(CAS Number) 7732-18-5 (CE Number) 231-791-2	85,8 - 100	Unclassified
EXT VINEGAR / (double fermentation biological process, alcoholic & < 10% acidity)	(CAS Number) 90132-02-8 (CE Number) 290-419-7	1,2 - 2,5	Skin corr 1A , H314

Full text of H-phrases: see section 16

TITLE 4 : First Aid

4.1. First aid indications

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

4.2. Main symptoms and effects, acute and delayed

Symptoms / effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of immediate medical attention and special treatment needed

: Symptomatic treatment.

TITLE 5 : Measures against fire

5.1. Extinguishing Media

Suitable extinguishing media	: Sand. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :	Possible release of toxic fumes

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting anychemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-containedbreathing apparatus. Complete protective clothing.

TITLE 6 : Measures Accidental Release

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non emergency personnel

Emergency Procedures : Ventilate spill area . Evacuate unnecessary personal

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip eanup crewwith proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

6.2. Precautions for environmental protection

: Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for containment and cleaning

Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

: See Section 8. Exposure controls and personal protection.
For further information refer to section 13

TITLE 7 : Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling theproduct.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from
: Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Particular end use

: No additional information available

TITLE 8: Exposure controls / personal protection

8.1. Control Parameters

8.1.1 National occupational exposure and biological limit values :No additional information available

8.1.2. Recommended monitoring procedures : No additional information available

8.1.3. Air contaminants formed : No additional information available

8.1.4. DNEL and PNEC : No additional information available

8.1.5. Control banding : No additional information available

8.2. Exposure controls

8.2.1 Appropriate engineering controls : Ensure good ventilation of the work station.

8.2.2 Personal protective equipment symbol (s) : Avoid all unnecessary exposure



8.2.2.1. Eye and face protection Eye protection: Chemical goggles or Safety glasses : Safety glasses

8.2.2.2. Skin protection :

Skin and body protection : Wear suitable protective clothing

Hand protection : Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls : Avoid release to the environment.

Other information : No additional information

TITLE 9 : Physical and chemical properties

9.1. Basic physical and chemical properties Information

Physical state : Liquid

Colour : Colourless.

Odour : characteristic.

Odour threshold : Not available

Melting point	Not applicable
Freezing point	Not available
Boiling point	Not available
Flammability	Not flammable.
Explosive limits	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	Not available
Solubility	Not available
Partition coefficient n-octanol/water (Log Kow)	N ot available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	Not available
Relative density	Not available
Relative vapour density at 20°C	Not available
Particle size	Not applicable
Particle size distribution	Not applicable
Particle shape	Not applicable
Particle aspect ratio	Not applicable
Particle aggregation state	Not applicable
Particle agglomeration state	Not applicable
Particle specific surface area	Not applicable
Particle dustiness	Not applicable

9.2. Other informations

9.2.1. Information with regard to physical hazard classes	No additional information available
9.2.2. Other safety characteristics	No additional information available

TITLE 10 : Stability and reactivity

10.1. Reactivity	The product is not reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Not established
10.3. Possibility of hazardous reactions	Not established
10.4. Conditions to avoid	Direct sunlight. Extremely high or low temperatures
10.5. Incompatible materials	Strong acids. Strong bases
10.6. Hazardous decomposition products	Fume. Carbon monoxide. Carbon dioxide

TITLE 11 : Toxicological informations

11.1. Information on hazard classes as defined in Regulation (EC) n° 1272/2008

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified.
Additional information	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Not classified
Additional information	Based on available data, the classification criteria are not met
Respiratory or skin sensitization	Not classified
Additional information	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-single exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-repeated exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
Aspiration hazard	Not classified
Additional information	Based on available data, the classification criteria are not met

11.2. Information on other hazards

No additional information available

11.2.1 Endocrine disrupting properties No additional information available

11.2.2 Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

TITLE 12 : Ecological informations

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

No additional information available

12.3. Potential for bioaccumulation

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

TITLE 13 : Considerations Disposal

13.1. Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

TITLE 14 : Transport informations

In accordance with the requirements of ADR / RID / IMDG / IATA / ADN

14.1. ONU number

UN - N° (ADR) :	Not applicable
UN - N° (IMDG) :	Not applicable
UN - N° (IATA) :	Not applicable
UN - N° (ADN) :	Not applicable
UN - N° (RID) :	Not applicable

14.2. Official shipping transport name ONU

Proper Shipping Name (ADR) :	Not applicable
Proper Shipping Name (IMDG) :	Not applicable
Proper Shipping Name (IATA) :	Not applicable
Proper Shipping Name (ADN) :	Not applicable
Proper Shipping Name (RID) :	Not applicable

14.3. Hazard class for transport

ADR - Hazard class for transport (ADR) :	Not applicable
IMDG - Hazard class for transport (IMDG) :	Not applicable
IATA - Hazard class for transport (IATA) :	Not applicable
ADN - Hazard class for transport (ADN) :	Not applicable
RID -Hazard class for transport (RID) :	Not applicable

14.4. Packing Group

Packing Group (ADR) :	Not applicable
Packing Group (IMDG) :	Not applicable
Packing Group (IATA) :	Not applicable

Packing Group (ADN) :	Not applicable
Packing Group (RID) :	Not applicable

14.5. Environmental hazards

Dangerous for the environment:	No
Marine pollutant:	No
Other information's :	No supplementary information available

14.6. Special precautions for user

- Overland transport	No data available
- By sea transport	No data available
- Air transport	No data available
- Inland Waterway transport	No data available
- Rail transport	No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

TITLE 15 : Regulatory information

15.1. Regulations / legislation for the substance or mixture Safety, health and environment

15.1.1. EU regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations No additional information available

15.2. Chemical safety assessment No chemical safety assessment has been carried out

TITLE 16 : Other informations

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	SDS EU format	Modified	

Abrevations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC - N°	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS n°	Chemical Abstract Service number
N.O.S	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substancesand mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
H314	Causes severe skin burns and eye damage.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.