



HYGIENE MADE SIMPLE

ENVIRONMENTAL POLICIES, PROCEDURES AND CREDENTIALS
FEBRUARY 2021

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AN OVERVIEW OF OUR ENVIRONMENTAL CREDENTIALS

AS THE LEADER IN THE SCIENCE, MANUFACTURE AND APPLICATION OF HYPOCHLORUS ACID, AQUALUTION IS COMMITTED TO MINIMISING THE IMPACT OF OUR ACTIVITIES AND PRODUCTS ON THE ENVIRONMENT AND COMPLY WITH ALL RELEVANT ENVIRONMENTAL LEGISLATION IN OUR AREAS OF OPERATION.

Our environmental credentials cover three key areas:

1. Our corporate policy
2. Our manufacturing and operational processes
3. Our products.

OUR CORPORATE ENVIRONMENTAL POLICY

AQUALUTION, HAS IN PLACE AN ENVIRONMENTAL POLICY WHICH, IN SUMMARY, FOCUSES ON THE IMPLEMENTATION OF THE FOLLOWING:

- Assess and regularly re-assess the environmental effects of our activities
- Training of employees in environmental issues
- Apply waste hierarchy techniques to minimise waste
- Minimise material wastage
- Promote the use of recyclable and renewable materials
- Prevent pollution in all its forms
- Control atmospheric emissions from operation
- Minimise the risk to the general public and employees from our operations and activities.

OUR CORPORATE ENVIRONMENTAL POLICY – IN FOCUS

KEY AREAS OF ENVIRONMENTAL FOCUS INCLUDE:

1. All our company cars have been electric or hybrid since 2013
2. Our corrugated packaging is fully recyclable and approximately 80% of our packaging is made from recycled paper
3. We recycle all our commercial waste where possible and are aiming for zero waste to landfill by 2022
4. Our transport and packaging partners have their own environmental policies and targets and we work with them to drive efficiencies wherever possible.

OUR MANUFACTURING AND OPERATIONAL PROCESSES

AQUALUTION® TECHNOLOGY GENERATES HYPOCHLOROUS ACID VIA OUR IN-HOUSE DESIGNED ELECTRO-DIALYSIS PROCESS TO PRODUCE A STABLE, FAST-ACTING BIOCIDES FOR MANY DIFFERENT USES.

- We hold ISO 14001 accreditation that sets out the requirements for an environmental management system helping us improve our environmental performance through more efficient use of resources and reduction of waste.
- Our ingredients, salt and water, are both low environmental impact chemicals with regards to their storage, handling and use.
- Once empty, used packaging is not classified as hazardous and does not need to be treated as hazardous/special waste.

THE FUTURE OF OUR PROCESSES

AQUALUTION IS IN THE PROCESS OF DESIGNING AND BUILDING A NEW FACTORY AND AIMS TO BE MANUFACTURING IN THE NEW FACILITY BY END 2022.

This new facility:

- Is being designed with input from Zero Waste Scotland to make it as efficient as possible
- Will have green technology designed into it from opening
- Will have onsite liquid waste treatment and require no movement of waste
- Will be fitted with solar panels with excess energy being used by neighbouring businesses.



UN – SUSTAINABLE DEVELOPMENT GOALS

AQUALUTION IS COMMITTED TO WORKING TOWARDS THE UN'S SUSTAINABLE DEVELOPMENT GOALS AND OUR PRODUCTS GO A LONG WAY TO HELPING SUPPORT MANY AREAS.



OUR PRODUCTS



SALVESAN™

For offices,
communities,
homes and
healthcare



SOLOSAN®


For animal care,
agriculture and
horticulture



AGRIPURE™

For food
production


PRODUCT ENVIRONMENTAL BENEFITS AT A GLANCE



No hazard or
toxicity warnings




Fully compliant
with the rigorous
European Biocide
Regulations (EU
528/2012)




Reduces the use
of legacy toxic
chemicals



One product for a
wide range of
applications,
solutions and
sectors










No hazardous
commercial
waste



Completely
alcohol free
and non-
irritating to skin

COMPARISON WITH TRADITIONAL DISINFECTANTS

PRODUCTS	AQUALUTION	ALCOHOL	HOUSEHOLD DISINFECTANT	BLEACH
ACTIVE INGREDIENTS	HYPOCHLOROUS ACID	ETHANOL	CHLOROXYLENOL	SODIUM HYPOCHLORITE
• Anti-bacterial, anti-fungal, sporicidal & fungicidal	✓	X	X	✓
• No harsh chemicals	✓	X	X	X
• No significant label warnings	✓	X	X	X
• Active ingredient produced by human white blood cells	✓	X	X	X
• Multi-functional; disinfectant, sterilant and sanitiser	✓	X	X	X
• No risk of alcohol poisoning or intoxication	✓	X	✓	✓
• PH neutral & non sensitising to skin & eyes	✓	X	X	X
• Suitable for use around children, pets and food	✓	X	X	X
• Air sterilising	✓	X	X	X
• Deodorises naturally	✓	X	X	X
• Non-flammable	✓	X	X	✓
• Hazards	None	  		  

SALVESAN – ENVIRONMENTAL BENEFITS

- Biodegradable – can be broken down readily
- No hazard warnings, unlike traditional disinfectants, so provides no risk to the environment, aquatic, animal or human health
- Non-irritating to skin and eyes
- Packaging is not classified as hazardous and does not need to be treated as hazardous/special waste
- All bottles are refillable
- No risk of mixing products
- A ready to use solution, with no scope for operator dilution errors, reducing wastage and ensuring the optimum concentration used every time.



SOLOSAN – ENVIRONMENTAL BENEFITS

- Reducing wastage on farms by using one product for:
 - drinking and process water
 - crop treatment
 - cleanliness and hygiene
 - all animal wound control
- Poses no hazards to the environment
- Safe for septic tank use
- Improves animal welfare with the potential to significantly reduce use of antibiotics and chemicals on farm
- Enables a potential to move to ground source water
- Can be produced on-site on-demand reducing carbon footprint
- Reduced need to use corrosive, harmful legacy products.



AGRIPURE – ENVIRONMENTAL BENEFITS

- Enables high volume throughput
- Reduces water usage by up to 80%
- Reduces electricity usage by up to 85%
- Reduces chemical usage by up to 80%
- A recycling system enables a continuous flow process and improves productivity
- Solution driven for all food types including the most delicate produce
- Prevents contamination in the food chain
- Various methods available: washing, dipping, spraying, wet misting, dry misting
- Dry misting particle size <8 microns so sanitises

without wetness = no loss of fruit integrity for delicate fruit reducing wastage

- Agripure can also be used as the terminal sanitising agent in waste-water filtration / recycling operations.





AQUALUTION®

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THANK YOU

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