VEXO INTERNATIONAL (UK) LTD
6 The Granary Building, Millow Hall Farm, Millow (Nr Dunton),
Biggleswade, Bedfordshire, SG18 8RH
Tel: 01767 500 150 / 07931 164 289

Product Data Sheet
X-PO10

General Description

Closed circuit corrosion inhibitor

Properties

This product has been manufactured under the BuildCert product certification scheme.
Protects steel, cast iron, copper, brass and aluminium.
Compatible with ethylene glycol and propylene glycol.
Suitable for industrial and domestic central heating systems running up to a maximum temperature of 90oC

Benefits

Near neutral pH
Low toxicity.
Excellent corrosion control for most common metals of construction.
Suitable for all water qualities.

Use Instructions

Normal Dose Rate:	To a typical central heating system (70l) dose 250mls. This is equivalent to 0.36% (vol/vol).
Instructions:	The system should be clean when dosed. New systems should be flushed with a suitable pre-commission cleaner. Old systems should be flushed with a suitable rust remover. Monitor the product concentration, pH and microbiological status regularly.

Technical Data

Composition:	An aqueous solution of organic and inorganic corrosion inhibitors
Appearance:	Amber
Sg (at 20C):	1.147
pH:	7.5 - 7.8

Handling and Storage

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Store in a cool, well ventilated area.
Keep container tightly closed.

For full guidance on health and safety matters consult the Safety Data Sheet (SDS)

Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Do not mix with other chemicals unless advised by your consultant.

Test Methods

Laboratory:	Test for 100ppm molybdate
Site:	As for laboratory

Other Helpful Documentation

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Product Data Sheet
X-PO20

General Description

A descalant

Properties

A product designed to remove scale during normal operation.
Near neutral pH
Slow / progressive action

Benefits

Removes the scale responsible for "kettling" and poor heat transfer.
Restores heat transfer eficiency.
No system shut down
Non-corrosive

Use Instructions

Normal Dose Rate:	To a typical central heating system (70l) dose 250mls.
Instructions:	The system does not require draining. Add product on top of the existing system treatment. Monitor the clarity of the system water. Drain and refill it if the water becomes very cloudy.

Technical Data

Composition:	An aqueous solution of polymers and sequesterants.
Appearance:	Clear / pale yellow solution.
Sg (at 20C):	1.082
pH:	5-6.5

Handling and Storage

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Compatible with most closed circuit water treatment products.

Test Methods

Laboratory:	Test for phosphonate (2000 ppm at 1%) with the Tintometer micropipette phosphonate method.
Site:	Test for phosphonate (2000 ppm at 1%) with the Tintometer micropipette phosphonate method.

Other Helpful Documentation

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Product Data Sheet
X-PO35

General Description

A multipurpose flushing agent

Properties

A blend of cleaning and dispersing agents.
Contains a very effective biodispersant.
Neutral formulation. Compatible with all metallic and non metallic components generally found in closed circuit systems.

Benefits

Lifts and mobilises system contaminants including biofilm.
Cleans and passivates bare metal surfaces, preventing under deposit corrosion and prolonging system life.
Straightforward test method available.
This product has been formulated so that it can remain in the system after addition of X-PO10 inhibitor

Use Instructions

Normal Dose Rate:	0.36%
Instructions:	Add product to the system to achieve a concentration of 0.36%. Circulate for an optimum period of 48 hours. For best results a good flow rate is required. Always use this product in conjunction with an X-POT so that all system debris can be effectively removed

Technical Data

Composition:	An aqueous solution of phosphonates, ethoxylate and polymers
Appearance:	Pale yellow
Sg (at 20C):	1.06
pH:	7-9

Handling and Storage

Avoid direct contact with the substance.
Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Compatible with most closed circuit water treatment products. This product has been formulated specifically for use with X-PO10 inhibitor.

Test Methods

Laboratory:	Test for nitrite 0.36% product gives 100ppm nitrite
Site:	Test for nitrite 0.36% product gives 100ppm nitrite

Other Helpful Documentation

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Product Data Sheet
X-PO40

General Description

A polymeric sludge conditioner

Properties

A blend of cleaning and dispersing agents to de-sludge systems already in use.
Designed to remove and disperse particulate fouling.
Effective for iron oxide deposits, hardness derived sludges and biofilms.

Benefits

Neutral pH.
Non-aggressive.
High dispersing power.

Use Instructions

Normal Dose Rate:	To a typical central heating system (70l) dose 250mls.
Instructions:	Circulate for a minimum of 24 hours. For best results a good flow rate is required. Flush system with clean water before filling system and treating with a suitable corrosion inhibitor. If pipework is totally blocked with debris, remove system components and jet out with water prior to the flushing procedure.

Technical Data

Composition:	An aqueous solution of polymers and surfactants.
Appearance:	Pale straw
Sg (at 20C):	1.095
pH:	5-6

Handling and Storage

Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.
Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Compatible with most closed circuit water treatment products.

Test Methods

Laboratory:	No test method available
Site:	No test method available

Other Helpful Documentation

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Product Data Sheet
X-PO45

General Description

A pre-commission cleanser

Properties

A blend of cleaning and dispersing agents.
Removes oils, greases and flux residues from new installations.

Benefits

Neutral pH.
Non-aggressive.
High dispersing power.

Use Instructions

Normal Dose Rate:	To a typical central heating system (70l) dose 250mls.
Instructions:	Use in new installations. Circulate for a minimum of 24 hours. For best results a good flow rate is required.

Technical Data

Composition:	An aqueous solution of chelant, polymers and surfactants.
Appearance:	Colourless
Sg (at 20C):	1.032
pH:	5.5-6.5

Handling and Storage

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.
Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Compatible with most closed circuit water treatment products.

Test Methods

Laboratory:	No test method available.
Site:	No test method available.

Other Helpful Documentation

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Product Data Sheet
X-PO50

General Description

A BuildCert Approved inhibitor plus Monopropylene Glycol anti-freeze. Pre-mixed formulation for chilled water circuits, including Air Source Heat Pumps to give freeze protection to -12oC.

Properties

Reduces the freezing point of water
Gives protection to -12deg C (if undiluted)
Good corrosion control for most common metals of construction

Benefits

Ready to use
Low toxicity
Free from nitrites
Free from borates

Use Instructions

Normal Dose Rate:	Dose neat
Instructions:	No dilution required

Technical Data

Composition:	An aqueous solution of monopropylene glycol and corrosion inhibitors
Appearance:	Colourless
Sg (at 20C):	1.011
pH:	6.5-7.5

Handling and Storage

Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Do not mix with other chemicals unless advised by your consultant

Test Methods

Laboratory:	Not applicable
Site:	Not applicable

Other Helpful Documentation

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Product Data Sheet
X-PO55

General Description

A BuildCert Approved inhibitor plus Monopropylene Glycol anti-freeze. Concentrate formulation for chilled water circuits, including Air Source Heat Pumps.

Properties

Reduces the freezing point of water in proportion to its concentration.
Good corrosion control for most common metals of construction

Benefits

Easy to use
Low toxicity formulation

Use Instructions

Normal Dose Rate:	Dose to give desired level of freezing protection. Minimum dose for full corrosion protection is 40%.
Instructions:	20% MPG (by volume) gives a freezing point of -7 deg C 40% MPG (by volume) gives a freezing point of -21 deg C

Technical Data

Composition:	A blend of monopropylene glycol and corrosion inhibitors
Appearance:	Colourless
Sg (at 20C):	1.035
pH:	6.5 - 7.5

Handling and Storage

Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Do not mix with other chemicals unless advised by your consultant

Test Methods

Laboratory:	Determine concentration and the level of freeze protection with a refractometer
Site:	As for laboratory

Other Helpful Documentation

Mono propylene glycol - Freeze protection vs concentration table.

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Product Data Sheet
X-PO80

General Description

A liquid biocide.

Properties

Based on THPS.
A highly effective, rapid acting and powerful biocide.
A broad spectrum microbiocide.
This biocide is being supported through the BPR

Benefits

Effective against Legionella, sulphate reducing bacteria, Pseudomonas spp, Nitrite Reducing bacteria and algae.
Low foaming.
Can be used as a secondary biocide in systems being treated with halogen.
Low aquatic toxicity at use concentrations.

Use Instructions

Normal Dose Rate:	Dose to give 100 - 300ppm (0.01 - 0.03%)
Instructions:	Can be dosed by hand or through automatic dosing equipment. Alternate the use of a biocide with second to prevent the development of resistant bacteria strains.

Technical Data

Composition:	An aqueous solution of tetrakis hydroxymethyl phosphonium sulphate.
Appearance:	Colourless
Sg (at 20C):	1.085
pH:	3 - 4.5

Handling and Storage

Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.
Store in a cool, well ventilated area.
Keep container tightly closed.
For full guidance on health and safety matters consult the Safety Data Sheet (SDS)
Carry out a 'Control Of Substances Hazardous to Health' (COSHH) assessment before use.

Product Compatibility

Compatible with most cooling water treatment products. But do not mix neat products.

Test Methods

Laboratory:	No test method available.
Site:	No test method available.

Other Helpful Documentation

HSG 274 Legionnaires' disease. Technical Guidance Part 1: The control of legionella bacteria in evaporative cooling systems