



**MATERIAL SAFETY DATA SHEET FOR
BOSS X-PO65 ANTI FREEZE CONCENTRATE & INHIBITOR– 16910895**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	X-PO65
Intended use:	A BuildCert Approved inhibitor plus Monoethylene Glycol anti-freeze. Concentrate formulation for chilled water circuits, including Ground Source Heat pumps
Trade Name:	BOSS X-PO65
Supplier of product:	The BSS Group Ltd
Registered Office:	Travis Perkins PLC, Lodge Way House, Lodge Way, Harlestone Road, Northampton NN5 7UG.
Telephone/Fax Numbers:	0116 245 5500 / 0116 218 2214
E-mail Address	reception@bssgroup.com
Web site Address	www.bssindustrial.co.uk

2. HAZARD IDENTIFICATION

Classification of the substance or mixture	
Classification under CHIP:	Xn:R22;
Classification under CLP:	AcuteTox.4: H302
Most important adverse effects:	Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Label Elements under CLP:	
Hazard statements:	H302: Harmful if swallowed.
Signal word:	Warning
Hazard pictograms:	
Precautionary statements:	P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell. P330: Rinse mouth. P501: Dispose of contents/container to contents/container comply with local regulations
Other hazards	
PBT:	This substance is not identified as a PBT substance

3. COMPOSITION/INFORMATION ON INGREDIENTS. (CONT)

Hazardous ingredients					
Ingredients	EINECS	CAS	Reach Reg No.	CLP Class	Percent
ETHYLENE GLYCOL	203-473-3	107-21-1	01-2119456816-28-XX	AcuteTox.4: H302	>90%
BRONOPOL (INN)	200-143-0	52-51-7	01-2119980938-15	AcuteTox.4: H302;AcuteTox.4: H302;STOTSE3: H335;SkinIrrit.2: H315;EyeDam.1: H318; AquaticAcute1: H400	<1%

4. FIRST AID MEASURES

Description of first aid measures	
Skin Contact:	Wash immediately with plenty of soap and water.
Eye Contact:	Bathe the eye with running water for 15 minutes.
Ingestion:	Wash out mouth with water.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so.
Most important symptoms and effects, both acute and delayed	
Skin Contact:	There may be mild irritation at the site of contact
Eye Contact:	There may be irritation and redness.
Ingestion:	There may be irritation of the throat.
Inhalation:	No symptoms.

5. FIRE FIGHTING MEASURES

Extinguishing media	
Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers
Special hazards arising from the substance or mixture	
Exposure hazards:	In combustion emits toxic fumes.
Advice for fire-fighters	
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
Personal precautions:	Refer to section 8 of SDS for personal protection details Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions	
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding
Methods and material for containment and cleaning up	
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method
Reference to other sections	
Reference to other sections:	Refer to section 8 of SDS

7. HANDLING AND STORAGE:

Precautions for safe handling	
Handling requirements:	
Conditions for safe storage, including any incompatibilities	
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed
Suitable packaging:	Must only be kept in original packaging.
Specific end use(s)	
Specific end use(s):	No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters					
		Workplace exposure limits		Respirable dust	
Ingredients	State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
ETHYLENE GLYCOL	DE	26 mg/m ³	52 mg/m ³	-	-
ETHYLENE GLYCOL	EU	52 mg/m ³	104 mg/m ³	-	-
ETHYLENE GLYCOL	FR		125 mg/m ³	-	-
ETHYLENE GLYCOL	UK	mg/m ³ (vapour)	mg/m ³ (vapour)	-	-
DNEL/PNEC Values					
DNEL / PNEC:	No data available				
Exposure controls					
Engineering measures:					
Respiratory Protection:	Respiratory protection not required.				
Hand Protection:	Protective gloves				
Eye Protection:	Safety glasses. Ensure eye bath is to hand				
Skin Protection:	Protective clothing.				

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties			
State:	Liquid	Solubility in water:	Miscible in all proportions
Colour:	Colourless	Relative density:	1.113 pH:7-7.5
Odour:	Perceptible odour		
Viscosity Test Method:			
Boiling Point / Range:		Melting Point / Range:	
Vapour Press:			
Other information			
Other information:	No data available.		

10. STABILITY AND REACTIVITY

Reactivity	
Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability	
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions	
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials
Conditions to avoid	
Conditions to avoid:	Heat.
Incompatible materials	
Materials to avoid:	Strong oxidising agents. Strong acids.
Hazardous decomposition products	
Hazardous decomposition products:	In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects				
BRONOPOL (INN)				
SKN	RAT	LD50	1600	mg/kg
SKN	MUS	LD50	4750	mg/kg
ORL	RAT	LD50	180	mg/kg
ORL	MUS	LD50	270	mg/kg
ETHYLENE GLYCOL				
ORL	RAT	LD50	4700	mg/kg
ORL	MUS	LD50	5500	mg/kg
IVN	RAT	LD50	3260	mg/kg
Effects of mixture:	Calculated			
Symptoms / routes of exposure				
Skin Contact:	There may be mild irritation at the site of contact.			
Eye Contact:	There may be irritation and redness.			
Ingestion:	There may be irritation of the throat.			
Inhalation:	No symptoms.			

12. ECOLOGICAL INFORMATION

Toxicity	
Ecotoxicity values:	Not applicable
Persistence and degradability	
Persistence and degradability:	No data available.
Bioaccumulative potential	
Bioaccumulative potential:	No bioaccumulation potential.
Mobility in soil	
Mobility in solid:	Soluble in water.
Results of PBT and vPvB assessment	
PBT identification:	This substance is not identified as a PBT substance
Other adverse effects	
Other adverse effects:	No data available

13. DISPOSAL CONSIDERATIONS

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
Disposal of packaging:	Return empty containers to the supplier for recycling. Damaged containers should be destroyed by cutting up or by incineration. Do not use for potable water
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

14. TRANSPORT INFORMATION

UN Number	
UN number:	
UN Proper shipping name	
Shipping name:	NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.
Transport hazard class(es)	
Transport Class:	
Packing Group	
Packing group:	
Special precautions for user	
Tunnel Code:	
Transport Category	

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
Chemical Safety Assessment	
Chemical Safety Assessment:	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

16. OTHER INFORMATION

Chemical safety assessment:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010
Phrases used in s.2 and 3:	H312: Harmful in contact with skin. H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. H400: Very toxic to aquatic life. R21/22: Harmful in contact with skin and if swallowed. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. R50: Very toxic to aquatic organisms.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.