



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


**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

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

**2. HAZARD IDENTIFICATION**

<b>Classification of the substance or mixture</b>	
Classification under CLP:	AcuteTox.4: H302

**3. COMPOSITION/INFORMATION ON INGREDIENTS.**

<b>Label Elements under CLP:</b>	
<b>Hazard statements:</b>	H302: Harmful if swallowed.
<b>Signal word:</b>	Warning
<b>Hazard pictograms:</b>	
<b>Precautionary statements:</b>	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
<b>Other hazards</b>	
<b>PBT:</b>	This substance is not identified as a PBT substance

### 3. COMPOSITION/INFORMATION ON INGREDIENTS. (CONT)

<b>Hazardous ingredients</b>					
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

<b>Description of first aid measures</b>	
<b>Skin Contact:</b>	Wash immediately with plenty of soap and water.
<b>Eye Contact:</b>	Bathe the eye with running water for 15 minutes.
<b>Ingestion:</b>	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible
<b>Inhalation:</b>	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Skin Contact:</b>	There may be mild irritation at the site of contact
<b>Eye Contact:</b>	There may be irritation and redness.
<b>Ingestion:</b>	There may be irritation of the throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
<b>Inhalation:</b>	Absorption through the lungs can occur causing symptoms similar to those of ingestion.

### 5. FIRE FIGHTING MEASURES

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

## 6. ACCIDENTAL RELEASE MEASURES

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

## 7. HANDLING AND STORAGE:

<b>Precautions for safe handling</b>	
<b>Handling requirements:</b>	Avoid the formation or spread of mists in the air. Avoid direct contact with the substance
<b>Conditions for safe storage, including any incompatibilities</b>	
<b>Storage conditions:</b>	Store in a cool, well ventilated area. Keep container tightly closed
<b>Suitable packaging:</b>	Must only be kept in original packaging.
<b>Specific end use(s)</b>	
<b>Specific end use(s):</b>	No data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects				
<b>BRONOPOL (INN)</b>				
SKN	RAT	LD50	1600	mg/kg
SKN	MUS	LD50	4750	mg/kg
ORL	RAT	LD50	180	mg/kg
ORL	MUS	LD50	270	mg/kg
<b>ETHYLENE GLYCOL</b>				
ORL	RAT	LD50	4700	mg/kg
ORL	MUS	LD50	5500	mg/kg
IVN	RAT	LD50	3260	mg/kg
<b>Effects of mixture:</b>	Calculated			
<b>Symptoms / routes of exposure</b>				
<b>Skin Contact:</b>	There may be mild irritation at the site of contact.			
<b>Eye Contact:</b>	There may be irritation and redness.			
<b>Ingestion:</b>	There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.			
<b>Inhalation:</b>	Absorption through the lungs can occur causing symptoms similar to those of ingestion			

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal operations:</b>	Transfer to a suitable container and arrange for collection by specialised disposal company.
<b>Disposal of packaging:</b>	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
<b>NB:</b>	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

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

## **16. OTHER INFORMATION**

<b>Chemical safety assessment:</b>	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010
<b>Phrases used in s.2 and 3:</b>	H302: Harmful if swallowed 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.
<b><u>DISCLAIMER</u></b>  <b>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.</b>	