





# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT



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





<b>Product type:</b>	Adhesive
<b>Intended use:</b>	Jointing pipe and fittings in pressure systems
<b>Trade Name:</b>	BOSS PVC Pressure Solvent Cement
<b>Supplier of product:</b>	The BSS Group plc
<b>Registered Office:</b>	Fleet House, Lee Circle, Leicester, LE1 3QQ
<b>Telephone/Fax Numbers:</b>	0116 262 3232 / 0116 253 1343
<b>E-mail Address</b>	<a href="mailto:reception@bssgroup.com">reception@bssgroup.com</a>
<b>Web site Address</b>	<a href="http://www.bss-group.co.uk">www.bss-group.co.uk</a>

## 2. HAZARD IDENTIFICATION

<b>Classification of the substance or mixture</b>		
<b>Classification according to Regulation (EC) No 1272/2008</b>		
	GHS02 Flame	H225 Highly flammable liquid and vapour
	GHS07	H319 Causes serious eye irritation H335 & 336 May cause respiratory irritation. May cause drowsiness or dizziness H303 May be harmful if swallowed
<b>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</b>		
		Xi; Irritant R36/37 : Irritating to eyes and respiratory system
		F; Highly flammable R11: Highly flammable
<b>Information concerning to particular hazards to man and environment:</b>		
The product has to be labelled due to the calculation procedure on the "General Classification guideline for preparations of the EU" in the latest valid version.		
<b>Classification system:</b>	The classification is according to the latest edition of the EU-lists, and extended by company and literature data.	

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## 2. HAZARD IDENTIFICATION cont.

<b>Label elements</b> <b>Labelling according to Regulations (EC) No 1272/2008</b> <b>Hazard pictograms</b>	
 GHS02	 GHS07
<b>Signal Word:</b> Danger	
<b>Hazard Statements:</b> Highly flammable liquid and vapour May be harmful if swallowed May be harmful in contact with skin Causes serious eye irritation May cause drowsiness or dizziness	
<b>Precautionary statements:</b> Keep away from heat/sparks/open flames/hot surfaces – No smoking Use explosion-proof electrical/ventilating/lighting/equipment. IF ON SKIN (of hair): Remove/Take off immediately all contaminated clothing Rinse skin with water/shower IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Store locked up Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Labelling According to EU Guidelines:</b> The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials	
<b>Code letter and hazard designation of product:</b>	
 	Xi Irritant F Highly flammable
<b>Risk Phrases:</b> 11 Highly flammable 36/37 Irritation to eyes and respiratory system	
<b>Safety Phrases:</b> 9 Keep container in a well-ventilated place 16 Keep away from sources of ignition – No smoking 25 Avoid contact with eyes 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice 46 If swallowed, seek medical advice immediately and show this container or label 51 Use only in well-ventilated areas	

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical Characterization					
<b>Description:</b>	Adhesive				
<b>Main Constituents:</b>	<b>%</b>	<b>Cas No.</b>	<b>EINECS</b>	<b>Symbols</b>	<b>Risk Phrases</b>
<b>Tetrahydrofuran</b>	50-100	109-99-9	203-726-8	Xi, F	11, 19, 36/37
	GHS02 H225; GHS07 H319; H335				
<b>Cyclohexanone</b>	10-25	108-94-1	203-631-1	Xn	10, 20
	GHS02 H226; GHS07 H332				
<b>Methyl Ethyl Ketone</b>	2.5-10	78-93-3	201-159-0	Xi, F	11, 36, 66, 67
	GHS02 H225; GHS07 H319; H336				
<b>N-methyl-2-pyrrolidone</b>	≤2.5	872-50-4	212-828-1	T, Xi	61 – 36,37, 38
	GHS08 H360; GHS07 H315; H319; H335				
Additional Information: For the wording of the listed risk phrases refer to section 16					

## 4. FIRST AID MEASURES

<b>After Inhalation:</b>	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stable in side position for transportation.
<b>After Skin Contact:</b>	Generally the product does not irritate the skin
<b>After Eye Contact:</b>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>After Swallowing:</b>	Do not induce vomiting; call for medical help immediately

## 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing agents:</b>	Water haze Alcohol resistant foam Fire-extinguishing powder Carbon Dioxide
<b>For safety reasons unsuitable extinguishing agents:</b>	Water with full jet
<b>Protective equipment:</b>	Mount respiratory protective device
<b>Additional information:</b>	Cool endangered receptacles with water spray Collect contaminated fire fighting water separately. It must not enter the sewage system

## 6. ACCIDENTAL RELEASE MEASURES

<b>Person-related safety precautions:</b>	Wear protective equipment. Keep unprotected persons away
<b>Measures for environmental protection:</b>	Prevent seepage into sewage systems, work pits and cellars Do not allow to enter sewers/surface or ground water
<b>Measures for cleaning/collecting:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) Dispose contaminated material as waste according to item 13 Ensure adequate ventilation

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## 7. HANDLING AND STORAGE:

<b>Handling</b>	
<b>Information for safe handling:</b>	Ensure good ventilation/exhaustion at the workplace Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air)
<b>Information about fire - and explosion protection:</b>	Keep ignition sources away – Do not smoke Protect against electrostatic charges
<b>Storage</b>	
<b>Requirements to be met by storerooms and receptacles:</b>	Store in a cool location
<b>Information about storage in one common storage facility:</b>	Not required
<b>Further information about storage conditions:</b>	Keep receptacles tightly sealed Store in cool, dry conditions in well sealed receptacles

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Additional information about design of technical facilities:</b>	No further data, see item 7			
<b>Ingredients with limit values that require monitoring at the workplace:</b>				
<b>109-99-9 Tetrahydrofuran</b>	WEL	Short-term value:	300 mg/m <sup>3</sup>	100 ppm
		Long-term value:	150 mg/m <sup>3</sup>	50 ppm
		Sk		
<b>108-94-1 Cyclohexanone</b>	WEL	Short-term value:		20 ppm
		Long-term value:		10 ppm
		SK		
<b>78-93-3 Methyl Ethyl Ketone</b>	WEL	Short-term value:	899 mg/m <sup>3</sup>	300ppm
		Long-term value:	600 mg/m <sup>3</sup>	200ppm
		Sk		
<b>872-50-4 N-metyhyl-2-pyrrolidone</b>	WEL	Short-term value:	309 mg/m <sup>3</sup>	75ppm
		Long-term value:	103 mg/m <sup>3</sup>	25ppm
		Sk		
<b>Additional information:</b>	This lists valid during the making were used as a basis			
<b>Personal protective equipment</b>				
<b>General protective and hygienic measures:</b>	The usual precautionary measures are to be adhered to when handling chemicals Keep away from foodstuffs, beverages and feed Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work Avoid contact with the eyes and skin			
<b>Respiratory Protection:</b>	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Suitable respiratory protective device recommended			

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (cont)

<b>Protection of hands:</b>	Solvent resistant gloves The glove material has to be impermeable and resistant to the product/the substance/the preparation Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
<b>Material of gloves:</b>	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
<b>Penetration time of glove material:</b>	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
<b>For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:</b>	PVC or PE gloves
<b>Eye Protection:</b>	Tightly sealed goggled
<b>Body Protection:</b>	Solvent resistant protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>General Information</b>	
<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined
<b>Boiling point/boiling range:</b>	65°C
<b>Flash point:</b>	< 0°C
<b>Ignition temperature:</b>	230°C
<b>Self-igniting:</b>	Product is not self igniting
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion Limits:</b>	
<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	12.0 Vol %
<b>Vapour pressure at 20°C:</b>	200 hPa
<b>Density at 20°C:</b>	0.97 g/cm <sup>3</sup>
<b>Solubility in/Miscibility with water:</b>	Not miscible or difficult to mix
<b>Solids Content:</b>	20.9%

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## 10. STABILITY AND REACTIVITY

<b>Thermal decomposition/conditions to be avoided:</b>	No decomposition if used according to specifications
<b>Dangerous reactions:</b>	No dangerous reactions known
<b>Dangerous decomposition products:</b>	Danger of forming toxic pyrolysis products

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	
<b>Primary Irritant Effect:</b>	
<b>On the Skin:</b>	No irritant effect
<b>On the Eyes:</b>	Irritating effect
<b>Sensitization:</b>	No sensitizing effects known
<b>Additional toxicological information:</b>	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version - <b>Irritant</b>

## 12. ECOLOGICAL INFORMATION

<b>General Notes:</b>	Water hazard class 1 (German Regulations) (Self Assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course of sewage system.
-----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	
<b>Recommendation:</b>	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
<b>Uncleaned Packaging</b>	
<b>Recommendation:</b>	Disposal must be made according to official regulations Packagings that may not be cleansed are to be disposed of in the same manner as the product

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## 14. TRANSPORT INFORMATION

<b>Land Transport ADR/RIDD (cross-border)</b>	
<b>ADR/RID Class:</b>	3 (F1) Flammable liquids
<b>Danger code (Kemler):</b>	33
<b>UN-Number:</b>	1133
<b>Packaging group:</b>	II
<b>Hazard label:</b>	3
<b>Description of goods:</b>	1133 ADHESIVES, special provision 640D
<b>Limited quantities (LQ):</b>	LQ6
<b>Transport category:</b>	2
<b>Tunnel restriction code:</b>	D/E
<b>Maritime Transport IMDG:</b>	
<b>IMDG Class:</b>	3
<b>UN Number:</b>	1133
<b>Label:</b>	3
<b>Packaging Group:</b>	II
<b>EMS Number:</b>	F-E, S-D
<b>Marine Pollutant:</b>	No
<b>Proper Shipping Name:</b>	ADHESIVES
<b>Air Transport ICAO-TI and IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	3
<b>UN/ID Number:</b>	1133
<b>Label:</b>	3
<b>Packaging Group:</b>	II
<b>Proper Shipping Name:</b>	ADHESIVES
<b>UN "model Regulations":</b>	UN1133, ADHESIVES, 3, II

## 15. REGULATORY INFORMATION

<b>Chemical Assessment:</b>	<b>Safety</b>	A chemical Safety Assessment has now been carried out.
<b>National Regulations</b>		
<b>Technical Instructions (air):</b>		
<b>Class Share in %</b>	NK	50-100
<b>Water Hazard Class</b>		
<b>Water hazard class 1 (self-assessment):</b>	Slightly hazardous for water	

# MATERIAL SAFETY DATA SHEET FOR BOSS PVC PRESSURE SOLVENT CEMENT

## **16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### **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.**