




**MATERIAL SAFETY DATA SHEET FOR  
BOSS™ UNIVERSAL - 84410519**

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

<b>Product type:</b>	Castor based pipe thread sealant
<b>Intended use:</b>	Lubricants, Greases and Release Products.
<b>Trade Name:</b>	BOSS Universal
<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>REGULATION (EC) No 1272/2008</b>	
<b>Serious Eye Damage/Eye Irritation</b>	Category 2 – (H319)
<b>Label Elements</b>	
	
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	
<b>H319 -</b>	Causes serious eye irritation
<b>Precautionary Statements</b>	
<b>P264 :</b>	Wash face, hands and any exposed skin thoroughly after handling
<b>P280 :</b>	Wear protective gloves/ protective clothing/ eye protection/ face protection
<b>P305 + P351 + P338 :</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>P337 + P313 :</b>	If eye irritation persists: Get medical advice/ attention



### 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical Name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.
Limestone	215-279-6	1317-65-3	20-25	No data available	EXEMPT Article 2 (7)(B)
Mixed Resins in 4-hydroxy-4-methylpentan-2-one	-	-	23-27	Eye Irrit. 2 (H319)	No data available
Mica	310-127-6	12001-26-2	10-15	No data available	No data available
Bentonite	215-108-5	1302-78-9	7-10	Aquatic Chronic 4 (H413)	No data available
Titanium dioxide	236-675-5	13463-67-7	<2.0	No data available	01-2119489379-170

#### **Full text of H- and EUH-phrases: see Section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air.
<b>Skin Contact:</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms:</b>	No information available
<b>Indication of immediate medical attention and special treatment needed</b>	
<b>Notes to Physician:</b>	Treat symptomatically

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media:</b>	No information available.
<b>Special hazards arising from the substance or mixture</b>	
<b>Specific hazards arising from the chemical:</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors.
<b>Advice for firefighters</b>	
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.



## **6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	
<b>Personal precautions:</b>	Ensure adequate ventilation.
<b>For emergency responders:</b>	Use personal protection recommended in Section 8.
<b>Environmental Precautions:</b>	Should not be released into the environment. See Section 12 for additional Ecological Information.
<b>Methods and materials for containment and cleaning up</b>	
<b>Methods for containment:</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up:</b>	Take up mechanically, placing in appropriate containers for disposal.
<b>Reference to other sections:</b>	See section 8 for more information. See section 13 for more information.

## **7. HANDLING AND STORAGE:**

<b>Advice on safe handling:</b>	Ensure adequate ventilation.
<b>General Hygiene Considerations:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Conditions for safe storage, including any incompatibilities:</b>	
<b>Storage Conditions:</b>	Keep container tightly closed in a dry and well-ventilated place.
<b>Specific end use(s)</b>	
<b>Risk Management Methods (RMM)</b>	The information required is contained in this Material Safety Data Sheet.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits:</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.				
<b>Chemical Name</b>	<b>EU</b>	<b>United Kingdom</b>	<b>France</b>	<b>Spain</b>	<b>Germany</b>
Limestone 1317-65-3	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	-	-	-
Mica 12001-26-2	-	STEL: 2.4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> TWA: 0.8 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup>	-
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-
<b>Chemical Name</b>	<b>Italy</b>	<b>Portugal</b>	<b>Netherlands</b>	<b>Finland</b>	<b>Denmark</b>
Mica 12001-26-2	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	-	-	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup> Carc *	TWA: 10 mg/m <sup>3</sup> Carc *	-	-	TWA: 6 mg/m <sup>3</sup>
<b>Chemical Name</b>	<b>Austria</b>	<b>Switzerland</b>	<b>Poland</b>	<b>Norway</b>	<b>Ireland</b>
Limestone 1317-65-3	-	-	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
Mica 12001-26-2	TWA: 10 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	-	TWA: 6 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 0.8 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 2.4 mg/m <sup>3</sup>
Titanium dioxide 13463-67-7	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 10.0 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
<b>Chemical name</b>	<b>Romania</b>	<b>Ukraine TLVs</b>	<b>Sweden TLVs</b>	<b>Hungary</b>	<b>Turkey TLVs</b>
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>			TWA: 10 mg/m <sup>3</sup>	
Mica 12001-26-2	TWA: 3 mg/m <sup>3</sup>				
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>		LLV: 5 mg/m <sup>3</sup>		



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

<b>Derived No Effect Level (DNEL):</b>	No information available
<b>Predicted No Effect Concentration (PNEC):</b>	No information available
<b>Exposure controls</b>	
<b>Personal protective equipment</b>	
<b>Eye/face Protection:</b>	Tight sealing safety goggles.
<b>Hand Protection:</b>	Wear suitable gloves. Rubber gloves. Nitrile rubber.
<b>Skin and body protection:</b>	Wear suitable protective clothing.
<b>Environmental Exposure Controls:</b>	No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Gel
<b>Appearance:</b>	Cream Beige
<b>Odour:</b>	Slight Pungent
<b>Colour:</b>	No information available
<b>Odour Threshold:</b>	No information available

Property	Values	Remarks Method
<b>pH:</b>	No data available	None known
<b>Melting Point/Range:</b>	149°C	None known
<b>Boiling Point/Boiling Range:</b>	No data available	None known
<b>Flash Point:</b>	>113°C	None known
<b>Evaporation Rate:</b>	No data available	None known
<b>Flammability (solid, gas):</b>	No data available	None known
<b>Flammability Limited in Air:</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure:</b>	No data available	None known
<b>Vapor density:</b>	No data available	None known
<b>Relative density:</b>	1.40	None known
<b>Water Solubility:</b>	Kit: content solubility may vary	None known
<b>Solubility(ies):</b>	Completely soluble	None known
<b>Partition coefficient: n-octanol/water:</b>	No data available	None known
<b>Autoignition temperature:</b>	No data available	None known
<b>Decomposition temperature:</b>	No data available	None known
<b>Vapor density:</b>	No data available	None known
<b>Relative density:</b>	1.40	None known
<b>Water Solubility:</b>	Kit: content solubility may vary	None known



## 9. PHYSICAL AND CHEMICAL PROPERTIES (cont.)

<b>Solubility(ies):</b>	Completely soluble	None known
<b>Partition coefficient: n-octanol/water:</b>	No data available	None known
<b>Autoignition temperature:</b>	No data available	None known
<b>Decomposition temperature:</b>	No data available	None known
<b>Kinematic viscosity:</b>	No data available	None known
<b>Viscosity:</b>	No data available	None known

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact:</b>	None
<b>Sensitivity to Static Discharge:</b>	None
<b>Possibility of hazardous reactions:</b>	None under normal processing
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials:</b>	No information available
<b>Hazardous decomposition products:</b>	None under normal use conditions

## 11. TOXICOLOGICAL INFORMATION

<b>Information on likely routes of exposure:</b>	
<b>Product Information:</b>	
<b>Inhalation:</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact:</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact:</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion:</b>	Specific test data for the substance or mixture is not available.
<b>Information on toxicological effects</b>	
<b>Symptoms:</b>	No information available
<b>Numerical measures of toxicity</b>	
<b>Acute Toxicity</b>	
<b>Unknown acute toxicity</b>	

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bentonite	> 5000 mg/kg ( Rat )		
Titanium dioxide	> 10000 mg/kg ( Rat )		> 6820 mg/m <sup>3</sup>



## 11. TOXICOLOGICAL INFORMATION (cont.)

<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>	
<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No information available
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<b>Chemical Name</b>	<b>Toxicity to Algae</b>	<b>Toxicity to Fish</b>	<b>Toxicity to Microorganisms</b>	<b>Daphnia Magna (Water Flea)</b>
<b>Bentonite</b>		LC50 96 h: 8.0-19.0 g/L (Salmo gairdneri) LC50 96 h: = 19000 mg/L static (Oncorhynchus mykiss)		

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulative potential:</b>	No information available.
<b>Mobility in soil:</b>	No information available
<b>Results of PBT and vPvB assessment:</b>	No information available.

<b>Chemical Name</b>	<b>PBT and vPvB assessment</b>
Titanium dioxide	PBT assessment does not apply

<b>Other adverse effects:</b>	No information available
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste from Residues / Unused Products:</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated Packaging:</b>	No information available



#### **14. TRANSPORT INFORMATION**

##### **IMDG/IMO**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class (select)</b>	Not regulated.
<b>14.4. Packing Group (select)</b>	Not regulated.
<b>14.5. Marine Pollutant</b>	None.
<b>14.6. Special Provisions</b>	None.
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	No information available.

##### **RID**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class (select)</b>	Not regulated.
<b>14.4. Packing Group (select)</b>	Not regulated.
<b>14.5. Marine Pollutant</b>	Not applicable
<b>14.6. Special Provisions</b>	None.

##### **ADR**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>14.5. Environmental hazard</b>	Not applicable
<b>14.6. Special Provisions</b>	None.

##### **IATA**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>14.5. Environmental hazard</b>	Not applicable
<b>14.6. Special Provisions</b>	None.





## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture		
Chemical Name	French RG number	Title
Mica 12001-26-2	RG 25	-
<b>European Union</b>		
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.		
<b>Authorizations and/or restrictions on use:</b>	This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).	
<b>Persistent Organic Pollutants:</b>	Not applicable.	
<b>Ozone-depleting substances (ODS) regulation (EC) 1005/2009:</b>	Not applicable.	

International Inventories	
<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Not determined
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS:</b>	Complies

Legend	
<b>TSCA</b> -	United States Toxic Substances Control Act Section 8(b) Inventory
<b>DSL/NDSL</b> -	Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b> -	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
<b>ENCS</b> -	Japan Existing and New Chemical Substances
<b>IECSC</b> -	China Inventory of Existing Chemical Substances
<b>KECL</b> -	Korean Existing and Evaluated Chemical Substances
<b>PICCS</b> -	Philippines Inventory of Chemicals and Chemical Substances
<b>AICS</b> -	Australian Inventory of Chemical Substances

<b>Chemical Safety Assessment</b>	No information available
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## **16. OTHER INFORMATION**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### **Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation

#### **Legend**

SVHC: Substances of Very High Concern for Authorization:

#### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation

#### **Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

### **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.**