



**MATERIAL SAFETY DATA SHEET FOR  
BOSS ECO CLEANER - 79022710**

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

<b>Product type:</b>	Cleaning agent
<b>Intended use:</b>	Cleaner
<b>Trade Name:</b>	BOSS Eco Cleaner
<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> <b>Classification according to Regulation (EC) No 1272/2008</b>	
	GHS02
Flam. Liq. 2 H225 Highly flammable liquid and vapour.	
	GHS07
Eye Irrit. 2 STOT SE 3	H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
<b>Labelling according to Regulation (EC) No 1272/2008</b> The product is classified and labelled according to the CLP regulation.	
	GHS02
	GHS07
<b>Signal word</b> <b>Hazard-determining components of labelling:</b> <b>Hazard statements</b>	Danger  Acetone H225 Highly flammable liquid and vapour H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.



## 2. HAZARD IDENTIFICATION (cont)

<b>Precautionary statements</b>	P101 P102 P210 P261 P370+P378 P403+P233 P501	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapours. In case of fire: Use to extinguish: Water haze, Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with national regulations.
<b>Additional information:</b>	EUH066	Repeated exposure may cause skin dryness or cracking.
<b>Other hazards</b>		
<b>Results of PBT and vPvB assessment</b>	PBT: vPvB:	Not applicable. Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS.

<b>Chemical characterization: Mixtures</b>		
<b>Description: Cleansing product</b>		
<b>Dangerous components:</b>		
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone ⚠ Flam. Liq. 2, H225; SE 3, H336	⚠ Eye Irrit. 2, H319; STOT
CAS: 78-93-3 EINECS: 201-159-0	Methyl ethyl ketone ⚠ Flam. Liq. 2, H225; SE 3, H336	⚠ Eye Irrit. 2, H319; STOT
<b>Additional information:</b> For the wording of the listed risk phrases refer to section 16.		

## 4. FIRST AID MEASURES

<b>Description of first aid measures</b>	
<b>After Inhalation:</b>	Supply fresh air; consult doctor in case of complaints
<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
<b>Most important symptoms and effects, both acute and delayed</b> No further relevant information available.	
<b>Indication of any immediate medical attention and special treatment needed</b> No further relevant information available.	



## **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>Special hazards arising from the substance or mixture:</b>	No further relevant information available.
<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>Environmental protection:</b>	Prevent seepage into sewage systems, work pits and cellars Do not allow to enter sewers/surface or ground water
<b>Measures and material for containment and clean up:</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
<b>Reference to other sections</b>	
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	

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

<b>Handling</b>	
<b>Precautions for safe handling:</b>	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. 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
<b>Specific end use(s):</b>	No further relevant information available



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Additional information about design of technical facilities:</b>	No further data, see item 7			
<b>Control Parameters</b>				
<b>Ingredients with limit values that require monitoring at the workplace:</b>				
<b>67-64-1 acetone</b>	WEL (Great Britain)	Short-term value:	3620 mg/m <sup>3</sup> ,	1500 ppm
		Long-term value:	1210 mg/m <sup>3</sup>	500 ppm
	IOELV (European Union)	Long-term value:	121 mg/m <sup>3</sup>	55099m
<b>78-93-3 methyl ethyl ketone</b>	WEL (Great Britain)	Short-term value:	899 mg/m <sup>3</sup>	300ppm
		Long-term value:	600 mg/m <sup>3</sup>	200ppm
	IOELV (European Union)	Short-term value:	900 mg/m <sup>3</sup>	300ppm
		Long-term value:	600 mg/m <sup>3</sup>	200ppm
<b>Ingredients with biological limit values:</b>				
<b>78-93-3 methyl ethyl ketone</b>	BMGV (Great Britain)	70 µmol/L	Medium: urine	
			Sampling time: post shift	
			Parameter: butan-2-one	
<b>Additional information:</b>	The lists valid during the making were used as a basis			
<b>Personal protective equipment</b>				
<b>General protective and hygienic measures:</b>	<p>The usual precautionary measures are to be adhered to when handling chemicals.</p> <p>Keep away from foodstuffs, beverages and feed.</p> <p>Immediately remove all soiled and contaminated clothing</p> <p>Wash hands before breaks and at the end of work.</p> <p>Do not inhale gases / fumes / aerosols.</p> <p>Avoid contact with the eyes.</p> <p>Avoid contact with the eyes and skin.</p>			
<b>Respiratory Protection:</b>	Use suitable respiratory protective device in case of insufficient ventilation			
<b>Recommended filter device for short term use:</b>	Filter AX Filter A			
<b>Protection of hands:</b>	<p>Solvent resistant gloves</p> <p>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</p> <p>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</p>			
<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 can not 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.			

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

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:	PVC or PE gloves
Eye Protection:	 Tightly sealed goggles
Body Protection:	Solvent resistant protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance</b>	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour Threshold:	Not determined
pH-value:	Not determined
<b>Change in condition</b>	
Melting point/Melting range:	Undetermined
Boiling point/boiling range:	55°C
Flash point:	-1°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	465°C
Decomposition temperature:	Not determined
Self-igniting:	Product is not self igniting
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion Limits:</b>	
Lower:	1.8 Vol %
Upper:	13.0 Vol %
Vapour pressure at 20°C:	233 hPa
Density at 20°C:	0.8 g/cm <sup>3</sup>
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with water:	Not miscible or difficult to mix
Partition coefficient (n-octanol / water):	Not determined
<b>Viscosity:</b>	
Dynamic at 20 °C	1 mPas
Kinematic:	Not determined
Organic solvents:	100.0 %
Other information	All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.



## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No further relevant information available.
<b>Chemical Stability</b>	
<b>Thermal decomposition/conditions to be avoided:</b>	No decomposition if used according to specifications
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known
<b>Conditions to Avoid:</b>	No further relevant information available
<b>Incompatible materials:</b>	No further relevant information available
<b>Hazardous decomposition products:</b>	Danger of forming toxic pyrolysis products

## 11. TOXICOLOGICAL INFORMATION

<b>Information on toxicological effects</b>			
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met		
<b>LD/LC50 values relevant for classification:</b>			
<b>67-64-1 acetone</b>	Oral	LD50	5800 mg/kg (rat)
	Dermal	LD50	20000 mg/kg (rbt)
<b>78-93-3 methyl ethyl ketone</b>	Oral	LD50	3300 mg/kg (rat)
	Dermal	LD50	5000 mg/kg (rbt)
<b>Primary Irritant Effect:</b>			
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.		
<b>Serious eye damage / irritation</b>	Causes serious eye irritation.		
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.		
<b>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</b>			
<b>Germ cell mutagenicity:</b>	Based on available data, the classification criteria are not met		
<b>Carcinogenicity:</b>	Based on available data, the classification criteria are not met.		
<b>Reproductive toxicity:</b>	Based on available data, the classification criteria are not met.		
<b>STOT-single exposure:</b>	May cause drowsiness or dizziness		
<b>STOT-repeated exposure:</b>	Based on available data, the classification criteria are not met		
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.		



## 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	
<b>Acquatic toxicity:</b>	No further relevant information available.
<b>Persistence and degradability:</b>	No further relevant information available.
<b>Bioaccumulative potential</b>	No further relevant information available.
<b>Mobility in soil</b>	No further relevant information available.
<b>Additional ecological information:</b>	
<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.
<b>Results of PBT and vPvB assessment</b>	
<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.
<b>Other adverse effects</b>	No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Treatment Methods</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

## 14. TRANSPORT INFORMATION

<b>UN-Number ADR, AND, IMDG, IATA</b>	UN1993
<b>UN proper shipping name ADR</b>	1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))
<b>IMDG, IATA</b>	FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))
<b>Transport hazard class(es) ADR/ADN</b> 	
<b>Class Label</b>	3 (F1) Flammable liquids 3



**14. TRANSPORT INFORMATION** (cont.)

<b>IMDG, IATA</b> 	
<b>Class Label</b>	3 (F1) Flammable liquids 3
<b>Packing group ADR, AND, IMDG, IATA</b>	II
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special precautions for user</b> Warning: Flammable liquids.	
<b>Danger code (Kemler):</b>	33
<b>EMS Number:</b>	F-E, S-E
<b>Stowage Category</b>	B
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>ADR/ADN</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 500ml
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	D/E
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 500ml
<b>Remarks:</b>	Under certain conditions substances in Class 3 (flammable liquids) can be classified in Packing group III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
<b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, II



## 15. REGULATORY INFORMATION

<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>Directive 2012/18/EU</b>	
<b>Named dangerous substances - ANNEX I</b>	None of the ingredients is listed.
<b>Seveso category</b>	P5c FLAMMABLE LIQUIDS
<b>Qualifying quantity (tonnes) for the application of lower-tier requirements:</b>	5,000 t
<b>Qualifying quantity (tonnes) for the application of upper-tier requirements</b>	50,000 t
<b>REGULATION (EC) No 1907/2006 ANNEX XVII:</b>	
<b>Conditions of restriction:</b>	3
<b>Chemical safety assessment:</b>	A Chemical Safety Assessment has not been carried out.

## 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.

### **Relevant phrases**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

### **Abbreviations and acronyms:**

Flam. Liq. 2: Flammable liquids – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

### **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.**