







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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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



2. HAZARD IDENTIFICATION (cont)

Precautionary statements	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.
Additional information:	EUH066	Repeated exposure may cause skin dryness or cracking.
Other hazards		
Results of PBT and vPvB assessment	PBT: vPvB:	Not applicable. Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical characterization: Mixtures Description: Cleansing product Dangerous components:		
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
Additional information: For the wording of the listed risk phrases refer to section 16.		

4. FIRST AID MEASURES

Description of first aid measures	
After Inhalation:	Supply fresh air; consult doctor in case of complaints
After Skin Contact:	Generally the product does not irritate the skin
After Eye Contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After Swallowing:	Do not induce vomiting; call for medical help immediately
Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	



5. FIRE FIGHTING MEASURES

Suitable extinguishing agents:	Water haze Alcohol resistant foam Fire-extinguishing powder Carbon Dioxide
For safety reasons unsuitable extinguishing agents:	Water with full jet
Special hazards arising from the substance or mixture:	No further relevant information available.
Protective equipment:	Mount respiratory protective device
Additional information:	Cool endangered receptacles with water spray Collect contaminated fire fighting water separately. It must not enter the sewage system

6. ACCIDENTAL RELEASE MEASURES

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

Handling	
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Information about fire - and explosion protection:	Keep ignition sources away – Do not smoke Protect against electrostatic charges
Storage	
Requirements to be met by storerooms and receptacles:	Store in a cool location
Information about storage in one common storage facility:	Not required
Further information about storage conditions:	Keep receptacles tightly sealed Store in cool, dry conditions in well sealed receptacles
Specific end use(s):	No further relevant information available




8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:	No further data, see item 7			
Control Parameters				
Ingredients with limit values that require monitoring at the workplace:				
67-64-1 acetone	WEL (Great Britain)	Short-term value:	3620 mg/m³,	1500 ppm
		Long-term value:	1210 mg/m³	500 ppm
	IOELV (European Union)	Long-term value:	121 mg/ m³	55099m
78-93-3 methyl ethyl ketone	WEL (Great Britain)	Short-term value:	899 mg/m³	300ppm
		Long-term value:	600 mg/m³	200ppm
	IOELV (European Union)	Short-term value:	900 mg/m³	300ppm
		Long-term value:	600 mg/m³	200ppm
Ingredients with biological limit values:				
78-93-3 methyl ethyl ketone	BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one		
Additional information:	The lists valid during the making were used as a basis			
Personal protective equipment				
General protective and hygienic measures:	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. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid contact with the eyes and skin.			
Respiratory Protection:	Use suitable respiratory protective device in case of insufficient ventilation			
Recommended filter device for short term use:	Filter AX Filter A			
Protection of hands:	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			
Material of gloves:	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.			
Penetration time of glove material:	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

Information on basic physical and chemical properties	
General Information	
Appearance	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour Threshold:	Not determined
pH-value:	Not determined
Change in condition	
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.
Explosion Limits:	
Lower:	1.8 Vol %
Upper:	13.0 Vol %
Vapour pressure at 20°C:	233 hPa
Density at 20°C:	0.8 g/cm ³
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
Viscosity:	
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

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

11. TOXICOLOGICAL INFORMATION

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




12. ECOLOGICAL INFORMATION

Toxicity	
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information:	
General Notes:	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.
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects	No further relevant information available.

13. DISPOSAL CONSIDERATIONS


Waste Treatment Methods	
Recommendation:	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned Packaging	
Recommendation:	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

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



14. TRANSPORT INFORMATION (cont.)

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



15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances - ANNEX I	None of the ingredients is listed.
Seveso category	P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements:	5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
REGULATION (EC) No 1907/2006 ANNEX XVII:	
Conditions of restriction:	3
Chemical safety assessment:	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.