

# MATERIAL SAFETY DATA SHEET FOR BOSS ECO CLEANER





## 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 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>	reception@bssgroup.com
<b>Web site Address</b>	www.bss-group.co.uk

## 2. COMPOSITION/INFORMATION ON INGREDIENTS.



Chemical Characterization					
<b>Description:</b>	Cleaning Product				
<b>Main Constituents:</b>	<b>%</b>	<b>Cas No.</b>	<b>EINECS</b>	<b>Symbols</b>	<b>Risk Phrases</b>
<b>Acetone</b>	50-100%	67-64-1	200-662-2	Xi, F	11, 36, 66, 67
	Danger: flame 2.6/2 Warning: exclamation mark 3.3/2A, 3.8/3				
<b>Methyl Ethyl Ketone</b>	10-25%	78-93-3	201-159-0	Xi, F	11, 36, 66, 67
	Danger: flame 2.6/2 Warning: exclamation mark 3.3/2A, 3.8/3				
Additional Information: For the wording of the listed risk phrases refer to section 16					

## 3. HAZARD IDENTIFICATION

<b>Hazard description:</b>	 	Xi – Irritant F – 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. At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Has a narcotizing effect	
	R11 Highly flammable R36 Irritating to eyes R66 Repeated exposure may cause skin dryness or cracking R67 Vapours may cause drowsiness and dizziness	
<b>Classification system:</b>	The classification is according to the latest edition of the EU-lists, and extended by company and literature data.	

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## 3. HAZARD IDENTIFICATION (Cont.)

GMS Label Elements:	
	Danger: 2.6/2 – Highly flammable liquid and vapour
	3.3/2a – Causes serious eye irritation 3.8/3 – May cause drowsiness or dizziness
<b>Prevention:</b>	Keep away from heat/sparks/open flames/hot surfaces. No smoking Use explosion-proof electrical/ventilating/lighting/equipment
<b>Response:</b>	
<b>If on Skin (or hair):</b>	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
<b>If in Eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>Storage:</b>	Store locked up
<b>Disposal:</b>	Dispose of contents/container in accordance with local/regional/national/international regulations

## 4. FIRST AID MEASURES

<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

## 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

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### 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>67-64-1 acetone</b>	WEL    Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> 500 ppm
<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
<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 Avoid contact with the eyes and skin
<b>Respiratory Protection:</b>	Not required
<b>Protection of hands:</b>	Protective gloves. 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
<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

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## 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>	55°C
<b>Flash point:</b>	< 0°C
<b>Ignition temperature:</b>	465°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>	1.8 Vol %
<b>Upper:</b>	13.0 Vol %
<b>Vapour pressure at 20°C:</b>	233 hPa
<b>Density at 20°C:</b>	0.8 g/cm <sup>3</sup>
<b>Solubility in/Miscibility with water:</b>	Not miscible or difficult to mix

## 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.
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### 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

### 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

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## 15. REGULATORY INFORMATION

<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 – Flammable
<b>Risk Phrases:</b>	11	Highly flammable
	36	Irritating to eyes
	66	repeated exposure may cause skin dryness or cracking
	67	Vapours may cause drowsiness and dizziness
<b>Safety Phrases:</b>	9	Keep container in a well-ventilated place
	16	Keep away from sources of ignition – No smoking
	24/25	Avoid contact with skin and 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
<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	

## 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.**