





MATERIAL SAFETY DATA SHEET FOR BOSS ECO CLEANER



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 plc
Registered Office:	Fleet House, Lee Circle, Leicester, LE1 3QQ
Telephone/Fax Numbers:	0116 262 3232 / 0116 253 1343
E-mail Address	reception@bssgroup.com
Web site Address	www.bss-group.co.uk

2. HAZARD IDENTIFICATION

Hazard description:	 	Xi – Irritant F – Highly Flammable
Information concerning to particular hazards to man and environment:	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	
Classification system:	The classification is according to the latest edition of the EU-lists, and extended by company and literature data.	
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
Prevention:	Keep away from heat/sparks/open flames/hot surfaces. No smoking Use explosion-proof electrical/ventilating/lighting/equipment	
Response:		
If on Skin (or 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	
Storage:	Store locked up	
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations	

MATERIAL SAFETY DATA SHEET FOR BOSS ECO CLEANER

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical Characterization					
Description:	Cleaning Product				
Main Constituents:	%	Cas No.	EINECS	Symbols	Risk Phrases
Acetone	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				
Methyl Ethyl Ketone	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					

4. 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

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
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
Measures for environmental protection:	Prevent seepage into sewage systems, work pits and cellars Do not allow to enter sewers/surface or ground water
Measures for cleaning/collecting:	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 ECO CLEANER

7. HANDLING AND STORAGE:

Handling	
Information for safe handling:	Ensure good ventilation/exhaustion at the workplace 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:	No further data, see item 7
Ingredients with limit values that require monitoring at the workplace:	
67-64-1 acetone	WEL Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ 500 ppm
78-93-3 methyl ethyl ketone	WEL Short-term value: 899 mg/m ³ 300ppm Long-term value: 600 mg/m ³ 200ppm
Additional information:	This 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 Avoid contact with the eyes Avoid contact with the eyes and skin
Respiratory Protection:	Not required
Protection of hands:	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
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 cannot 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.
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 goggled
Body Protection:	Solvent resistant protective clothing

MATERIAL SAFETY DATA SHEET FOR BOSS ECO CLEANER

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined
Boiling point/boiling range:	55°C
Flash point:	< 0°C
Ignition temperature:	465°C
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
Solubility in/Miscibility with water:	Not miscible or difficult to mix

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Primary Irritant Effect:	
On the Skin:	No irritant effect
On the Eyes:	Irritating effect
Sensitization:	No sensitizing effects known
Additional toxicological information:	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 - Irritant

12. 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.
-----------------------	---

MATERIAL SAFETY DATA SHEET FOR BOSS ECO CLEANER

13. DISPOSAL CONSIDERATIONS



Product	
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

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

MATERIAL SAFETY DATA SHEET FOR BOSS ECO CLEANER

15. REGULATORY INFORMATION

Labelling According to EU Guidelines:	The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.	
Code letter and hazard designation of product:	 	Xi – Irritant F – Flammable
Risk Phrases:	11 36 66 67	Highly flammable Irritating to eyes repeated exposure may cause skin dryness or cracking Vapours may cause drowsiness and dizziness
Safety Phrases:	9 16 24/25 26 46 51	Keep container in a well-ventilated place Keep away from sources of ignition – No smoking Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice If swallowed, seek medical advice immediately and show this container or label Use only in well-ventilated areas
National Regulations		
Technical Instructions (air):		
Class Share in %	NK	50-100
Water Hazard Class		
Water hazard class 1 (self-assessment):	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.