




**MATERIAL SAFETY DATA SHEET FOR
BOSS YELLOW GAS MARKING PAINT - 84636096**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	Gas Marking Paint
Intended use:	Coating compound/ surface
Trade Name:	BOSS Yellow Gas Marking Paint
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	
Directive 67/548/EEC & Directive 1999/45/EC	F+; Extremely flammable. Vapours may cause drowsiness and dizziness.
Label elements:	According to Directive 67/548/EEC & Directive 1999/45/EC
Product Name:	BOSS Yellow Gas Marking Paint
Hazard Symbol:	 F+
Risk Phrases:	R12: Extremely flammable. R67: Vapours may cause drowsiness and dizziness.
Safety Phrases:	S3: Keep in a cool place. S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S23: Do not breathe vapour/spray. S51: Use only in well-ventilated areas. S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.
Additional Information:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep out of the reach of children.
Other hazards:	None.
Additional Information:	None.



3. COMPOSITION/INFORMATION ON INGREDIENTS.

Product as supplied: Aerosol					
Mixtures					
EC Classification No. 67/548/EEC					
Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Dimethyl ether	50 - 100	115-10-6	204-065-8	None assigned	F+; R12
n-butyl acetate	2.5 - 10	123-86-4	204-658-1	None assigned	R10, R66, R67
Butanone	2.5 - 10	78-93-3	201-159-0	None assigned	F; R11, Xi; R36, R66, R67
Ethyl acetate	≤2.5	141-78-6	205-500-4	None assigned	F; R11, Xi; R36, R66, R67
Acetone	≤2.5	67-64-1	200-662-2	None assigned	F; R11, Xi; R36, R66, R67
Toluene	≤2.5	108-88-3	203-625-9	None assigned	F; R11, Repr. Cat 3; R63, Xn; R48/20, R65, Xi; R38, R67
Solvent naphtha (petroleum), light arom.	≤2.5	64742-95-6	265-199-0	None assigned	Carc. Cat 2; R45, Muta. Cat 2; R46, Xn; R65

Additional Information

For full text of R phrases see section 16.

4. FIRST AID MEASURES

Inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.
Skin Contact:	Wash skin with soap and water. If irritation develops and persists, get medical attention.
Eye Contact:	Remove any contact lenses. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If symptoms develop, obtain medical attention.
Ingestion:	Unlikely route of exposure.
Most important symptoms and effects, both acute and delayed:	Unlikely to be required but if necessary treat symptomatically.
Indication of any immediate medical attention and special treatment needed:	No special requirements.

5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media:	Extinguish with waterspray, dry chemical, sand or carbon dioxide.
Unsuitable Extinguishing Media:	Water jet spray.
Special hazards arising from the substance or mixture:	Heating may cause pressure rise with risk of bursting.
Advice for fire-fighters:	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Keep away from sources of ignition. Ensure adequate ventilation.
Environmental precautions:	Do not allow to enter drains, sewers or watercourses.
Methods and material for containment and cleaning up:	Place leaking cans in a bucket or pail to minimise product contamination of surfaces. Leaked product will render floors very slippery. Adsorb spillages onto sand, earth or any suitable adsorbent material.
Reference to other sections:	See Also Section 7, 8, 13.

7. HANDLING AND STORAGE:

Precautions for safe handling:	Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Keep away from: Electrostatic charge. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Protect from sunlight. Store in dry place. Keep in a well ventilated place.
Storage Temperature	Do not expose to temperatures exceeding 50°C/ 122°F.
Storage Life	Stable under normal conditions
Incompatible materials:	None known
Specific end use(s):	Coating compound/ surface.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters						
Occupational Exposure Limits						
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Dimethyl ether	115-10-6	400	766	500	958	WEL
n-butyl acetate	123-86-4	150	724	200	966	WEL
Butanone	78-93-3	200	600	300	899	WEL (Sk)
Ethyl acetate	141-78-6	200	-	400	-	WEL
Acetone	67-64-1	500	1210	1500	3620	WEL
Toluene	108-88-3	50	191	100	384	WEL (Sk)




WEL: Workplace Exposure Limit (UK HSE EH40)

Sk - Can be absorbed through skin.

Biological limit value:	Not established.
PNECs and DNELs:	Not established.
Exposure controls	
Appropriate engineering controls:	Provide adequate ventilation.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION (cont)

Personal protection equipment		
	Eye/face protection:	Not normally required. Wear eye protection with side protection (EN166).
	Skin protection (Hand protection/Other):	Wear suitable gloves if prolonged skin contact is likely. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
	Respiratory protection:	Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely
Thermal hazards:		Not applicable.
Environmental Exposure Controls:		Do not allow to enter drains, sewers or watercourses

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	
Appearance:	Aerosol.
Colour:	Silver.
Odour:	Characteristic.
Odour Threshold:	Not determined.
pH:	Not determined.
Melting Point/Freezing Point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	-42°C
Evaporation rate:	Not determined.
Flammability (solid, gas):	Extremely flammable.
Upper/lower flammability or explosive limits:	3.0 – 18.6 Vol-%
Vapour pressure:	5200 hPa @ 20°C
Vapour density:	Not available.
Relative density:	Not determined.
Density:	0.738 g/cm ³
Solubility(ies):	Immiscible.
Partition coefficient: n-octanol/water:	Not determined.
Auto-ignition temperature:	The product is not self-igniting.
Ignition temperature:	235°C
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Contains gas under pressure; may explode if heated.
Oxidising properties:	No information available.
Other information:	None.



10. STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Stable under normal conditions.
Conditions to avoid:	Heat and direct sunlight.
Incompatible materials:	None known.
Hazardous Decomposition Product(s):	None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Mixtures	
Ingestion:	Solvent naphtha (petroleum), light arom.: LD50 (rat) >6800mg/kg
Inhalation:	Vapours may cause drowsiness and dizziness. Solvent naphtha (petroleum), light arom.: LC50 (rat) [4 hour(s)] >10.2mg/l
Dermal:	Solvent naphtha (petroleum), light arom.: LD50 (rabbit) >3400mg/kg
Irritation:	Non-irritant
Corrosivity:	Not classified. Sensitisation It is not a skin sensitiser.
Repeated dose toxicity:	None anticipated.
Carcinogenicity:	No evidence of carcinogenicity
Mutagenicity:	There is no evidence of mutagenic potential.
Other information:	None.

12. ECOLOGICAL INFORMATION

Toxicity:	Low toxicity to aquatic organisms.
Persistence and degradability:	No information available.
Bioaccumulative potential:	No information available.
Mobility in soil:	Immiscible with water.
Results of PBT and vPvB assessment:	Not classified as PBT or vPvB.
Other adverse effects:	None.
Additional Information:	WGK class 1 (official). Slightly hazardous for water.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility.
Additional Information:	Disposal should be in accordance with local, state or national legislation.



14. TRANSPORT INFORMATION

UN number:	UN 1950
UN proper shipping name:	AEROSOLS.
Transport hazard class(es):	2.1
Packing Group:	II
Environmental hazards:	Not classified as a Marine Pollutant.
Special precautions for user:	None.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
Additional Information:	
Tunnel Restriction Code:	D
IMDG Code:	EmS: F-D, S-U

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU regulations	
Authorisations and/or restrictions on use	
Candidate List of Substances of Very High Concern for Authorisation:	All chemicals are not listed.
REACH: ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORISATION:	All chemicals are not listed.
REACH: ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES:	Listed: Toluene (CAS No. 108-88-3). Item 48 of Annex XVII: Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0.1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.
Community Rolling Action Plan (CoRAP);	Listed: Toluene (CAS No. 108-88-3).
National regulations:	None known.
Chemical Safety Assessment:	Not available.



16. OTHER INFORMATION

The following risk numbers are allocated to bulk amounts of individual raw materials.

LEGEND:

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany)
Carc. Cat 2	Carcinogen Category 2
Muta. Cat 2	Mutagenic Category 2
Repr. Cat 3	Reproductive toxicity Category 3
F+	Extremely flammable
F	Highly flammable
Xi	Irritant
Xn	Harmful

R-PHRASES:

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable
R36	Irritating to eyes.
R38	Irritating to skin.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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.