



SAFETY DATA SHEET

MASTERFLOW 102 CS CARTRIDGE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: MASTERFLOW 102 CS CARTRIDGE

PART No.: F713067

SUPPLIER: MBT Feb
Albany House
Swinton Hall Road
Swinton Manchester M27 4DT

TEL: (+44) 161 794 7411

FAX: (+44) 161 727 8547

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS No.	CONTENTS	SYMBOL	RISK (R No.)
STYRENE	202-851-5	100-42-5	30-60 %	Xn	10, 20, 36/38

The full text for all R-phrases are shown in section 16.

COMPOSITION COMMENTS: Polyester based resin

3 HAZARDS IDENTIFICATION

Flammable.
Harmful by inhalation.
Irritating to eyes and skin.

4 FIRST AID MEASURES

INHALATION: Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

INGESTION: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Obtain medical advice. Provide rest, warmth and fresh air.

SKIN: Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYES: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use: Powder. Foam. DO NOT use water if avoidable.

SPECIAL FIRE FIGHTING PROCEDURES: Do not get water inside container. NOTE! Use air-supplied respirators to protect against gases/fumes. Use special protective clothing. Regular protection may not be safe.



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6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS TO PROTECT ENVIRONMENT:

Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

SPILL CLEANUP METHODS:

Wear necessary protective equipment. Ventilate well. Avoid contact with skin or inhalation of spillage, dust or vapour. Collect with absorbent, non-combustible material into suitable containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Avoid water on spilled material or leaking containers. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS:

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Keep away from sources of ignition - No smoking

STORAGE PRECAUTIONS:

Isolate from other materials. Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Store below 25°C.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 min)
STYRENE	100-42-5	MEL	100 ppm	250 ppm

INGREDIENT COMMENTS:

MEL = Maximum Exposure Limit. OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT:



VENTILATION:

Provide adequate general and local exhaust ventilation. Must not be handled in confined space without sufficient ventilation.

RESPIRATORS:

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).

PROTECTIVE GLOVES:

Protective gloves should be used if there is a risk of direct contact or splash. SPECIFIC RECOMMENDATIONS. Polyvinyl chloride (PVC).

EYE PROTECTION:

Wear approved safety goggles. Use face shield in case of splash risk. Contact lenses should not be worn

OTHER PROTECTION:

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENIC WORK ROUTINES:

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Viscous. Liquid.	COLOUR:	Amber.
ODOUR/TASTE:	Organic Solvent		
BOILING POINT (°C):	>145 @ 760mmHg	SPECIFIC GRAVITY (Water=1):	1.15 @ 20 °C
VAPOUR PRESSURE:	6.52mbar @ 20 °C	VISCOSITY:	10 Ps @ 20 °C
FLASH POINT (°C):	>31		



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FLASH POINT METHOD: PM Closed cup. **FLAMMABILITY LIMIT (lower %):** 1.1%
FLAMMABILITY LIMIT (upper %): 6.1%

10 STABILITY AND REACTIVITY

STABILITY: Normally stable.
CONDITIONS TO AVOID: Avoid excessive heat for prolonged periods of time.
MATERIALS TO AVOID: Strong oxidizing agents. Peroxides
HAZARDOUS DECOMPOSITION PRODUCTS:
Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Cyanides. Nitrous gases (NO_x).

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:
Acute toxicity. LD50. Oral. Rat. 5000 mg/kg

INHALATION: Toxic by inhalation. Concentrations above 100ppm can cause impairment of the nervous system
SKIN: Irritating to skin. May cause skin sensitisation
EYES: Irritating to eyes.

12 ECOLOGICAL INFORMATION

BIO ACCUMULATION: Styrene : May cause tainting of fish and shellfish

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of in accordance with Local Authority requirements. Do not allow runoff to sewer, waterway or ground. Contact specialist disposal companies.

14 TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:



ROAD:
UN No: 1866
HAZARD CLASS (ADR): Class 3: Flammable liquids. **ADR CLASS No:** 3
ADR ITEM No: 31 (c) **HAZARD No. (ADR):** 30
MARGINAL: 2301 **ADR LABEL No:** 3
HAZCHEM CODE: 3Y **CEFIC TEC(R) No:** 677B
PROPER SHIPPING NAME I: RESIN SOLUTION, FLAMMABLE

RAIL:
RAIL TRANSPORT CLASS No: 3 **RAILROAD PT:** 31 (c)

SEA:
UN SEA: 1866



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SEA TRANSPORT CLASS No:	Class 3	IMDG Page No:	3379
SEA PACK GR:	III	EmS No.:	3-05
MFAG Table No:	310	MARINE POLLUTANT:	No.
AIR:			
UN AIR:	1866	AIR TRANSPORT CLASS No:	3
AIR PACK GR:	III		

15 REGULATORY INFORMATION

LABEL FOR SUPPLY:



HARMFUL

RISK PHRASES:	R-10 R-20 R-36/38	Flammable. Harmful by inhalation. Irritating to eyes and skin.
SAFETY PHRASES:	S-26 S-51 S-24/25 S-60	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use only in well ventilated areas. Avoid contact with skin and eyes. This material and its container must be disposed of as hazardous waste.
UK ENVIRONMENTAL LISTINGS:	Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.	
EC DIRECTIVES:	System of specific information relating to Dangerous Preparations. 91\155.	
STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations.	
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply.	
GUIDANCE NOTES:	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).	

16 OTHER INFORMATION

INFORMATION SOURCES:	Dangerous Properties of Industrial Materials Report, N.Sax et.al.	
REVISION DATE:	01/10/01	
REVISION No. /REPLACES SDS ISSUED:	Issue 1	
SDS No.:	SDS0401	
R-PHRASES (Full Text):	R-10	Flammable.
	R-20	Harmful by inhalation.
	R-36/38	Irritating to eyes and skin.