



ABC CHEMICAL COMPANY
Chemicals for the International Printing Industry

SAFETY DATA SHEET MANCHEM HEAVY DUTY PLATE CLEANER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	MANCHEM HEAVY DUTY PLATE CLEANER		
APPLICATION	For use as a plate cleaner in the lithographic printing industry		
SUPPLIER	ABC CHEMICAL COMPANY DEANFIELD WAY LINK 59 BUSINESS PARK CLITHEROE LANCS BB7 1QU Tel: +44 (0)1200 420180 (09:00-17:00) Fax: +44 (0)1200 426178 info@abcchem.com	MANUFACTURER	Same as supplier

2 HAZARDS IDENTIFICATION

Flammable. Vapours may cause drowsiness and dizziness. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R36/38. N;R51/53. R10, R67.

PHYSICAL AND CHEMICAL HAZARDS

Heating will generate vapours which may form explosive vapour/air mixtures.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1,2,4-TRIMETHYLBENZENE	202-436-9	95-63-6	5-10%	R10 Xn;R20 Xi;R36/37/38 N;R51/53
2-METHYLSTYRENE	210-256-7	611-15-4	< 1	Xn;R20 N;R51/53
AROMATIC NAPHTHA (Benzene < 0.1%)	265-199-0	64742-95-6	1-5%	Xn;R65. N;R51/53. R10,R66,R67.
Citric Acid	201-069-1	77-92-9	5-10%	Xi;R36/37/38.
MESITYLENE	203-604-4	108-67-8	1-5%	R10 Xi;R37 N;R51/53
OXO ALCOHOL C12-15		68131-39-5	< 1	Xn;R22. Xi;R41. N;R50.
PHOSPHORIC ACID ...%	231-633-2	7664-38-2	1-5%	C;R34
PROPYLBENZENE	203-132-9	103-65-1	< 1	R10 Xn;R65 Xi;R37 N;R51/53
WHITE SPIRIT (BENZENE <0.1%)	265-185-4	64742-82-1	30-50%	Xn;R65. N;R51/53. R10,R66,R67.
XYLENE	215-535-7	1330-20-7	1-5%	R10 Xn;R20/21 Xi;R38

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

INHALATION

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Remove victim immediately from source of exposure. Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

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EYE CONTACT

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. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Carbon dioxide (CO2). Alcohol resistant foam. Dry chemicals, sand, dolomite etc. DO NOT use water if avoidable.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Containers close to fire should be removed or cooled with water. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

SPECIFIC HAZARDS

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid contact with skin or inhalation of spillage, dust or vapour. Absorb in vermiculite, dry sand or earth and place into containers. Runoff or release to sewer, waterway or ground is forbidden.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
1,2,4-TRIMETHYLBENZENE	WEL	25 ppm	125 mg/m3		
AROMATIC NAPHTHA (Benzene < 0.1%)	SUP	19 ppm	100 mg/m3		
MESITYLENE		25 ppm	125 mg/m3		
PHOSPHORIC ACID ...%	WEL		1 mg/m3		2 mg/m3
WHITE SPIRIT (BENZENE <0.1%)	SUP		350 mg/m3		
XYLENE	WEL	50 ppm(Sk)	220 mg/m3(Sk)	100 ppm(Sk)	441 mg/m3(Sk)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits SUP = Supplier's recommendation. Aromatic Naphtha and White Spirt are complex mixtures containing some of the components listed above with recognised WEL values -The exposure limits calculated by the supplier are based on a calculation including all the components of the mixture.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

MANCHEM HEAVY DUTY PLATE CLEANER**HAND PROTECTION**

Use protective gloves made of: Polyvinyl alcohol (PVA). Viton rubber (fluor rubber).

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

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

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Emulsion		
COLOUR	Pink		
ODOUR	Hydrocarbon		
PHYSICAL DATA COMMENTS	Flow time greater than 30 sec in a 3 mm ISO cup (EN 2431)		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	102 @ 760 mm Hg	RELATIVE DENSITY	0.95 @ 20
VOLATILE BY VOL. (%)	80.0	pH-VALUE, CONC. SOLUTION	0.6-1.0
FLASH POINT (°C)	38 P/M Pensky-Martens.		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidisers or reducing agents. Strong alkalis.

HAZARDOUS POLYMERISATION

Will not polymerise.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION**INHALATION**

May cause irritation to the respiratory system. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Irritating to skin. Repeated exposure may cause skin dryness or cracking. Contains ingredients which may penetrate the skin.

EYE CONTACT

Irritating to eyes.

MEDICAL SYMPTOMS

Drowsiness, dizziness, disorientation, vertigo. Skin irritation. Irritation of eyes and mucous membranes.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Not known. The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. The product contains a substance which is very toxic to aquatic organisms.

DEGRADABILITY

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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Name WHITE SPIRIT (BENZENE <0.1%)
 LC 50, 96 Hrs, FISH mg/l 10mg/l
 EC 50, 48 Hrs, DAPHNIA, mg/l 100mg/l
 IC 50, 72 Hrs, ALGAE, mg/l >10 and <=100mg/l

Mobility

The product is immiscible with water and will spread on the water surface. The product contains organic solvents which will evaporate easily from all surfaces.

Bioaccumulation potential

The product contains potentially bioaccumulating substances.

Degradability

The product is easily biodegradable.

Name AROMATIC NAPHTHA (Benzene < 0.1%)

Ecotoxicity

Dangerous for the environment if discharged into watercourses.

LC 50, 96 Hrs, FISH mg/l 1-10
 EC 50, 48 Hrs, DAPHNIA, mg/l 1-10
 IC 50, 72 Hrs, ALGAE, mg/l 1-10

Name OXO ALCOHOL C12-15

LC 50, 96 Hrs, FISH mg/l 0.96-7.5
 EC 50, 48 Hrs, DAPHNIA, mg/l 0.2-10
 IC 50, 72 Hrs, ALGAE, mg/l 0.5-50

Mobility

The product is soluble in water.

Degradability

Rapidly biodegradable.

Acute Fish Toxicity

Very toxic to aquatic organisms.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	FLAMMABLE LIQUID, NOS (CONTAINS PETROLEUM DISTILLATES)		
UN NO. ROAD	1993	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	HAZARD NO. (ADR)	30 Flammable liquid (flash-point between 23°C and 61°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 61°C, heated to a temperature equal to or above its flash-point, or self heating liquid.
ADR LABEL NO.	3	HAZCHEM CODE	3[Y]
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1993	IMDG CLASS	3
IMDG PACK GR.	III	EMS	FE-SE
MARINE POLLUTANT			

MANCHEM HEAVY DUTY PLATE CLEANER

UN NO. AIR

1993



AIR CLASS 3 AIR PACK GR. III

15 REGULATORY INFORMATION

LABELLING



Irritant



Dangerous for the environment

RISK PHRASES

- R10 Flammable.
- R36/38 Irritating to eyes and skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.
- S51 Use only in well-ventilated areas.
- S24/25 Avoid contact with skin and eyes.
- S60 This material and its container must be disposed of as hazardous waste.

DETERGENT LABELLING

- > 30% Aliphatic hydrocarbons
- 5-15% Aromatic hydrocarbons
- < 5% Non-ionic surfactants

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

INFORMATION SOURCES

Croner's: Dangerous Substances. Croner's: Emergency Spillage Guide. Croner's: Emergency First Aid Guide. Croner's: Substances Hazardous to Health. Material Safety Data Sheet, Misc. manufacturers.

REVISION COMMENTS

Section 1 Updated Section 2 updated. Section 3 updated Section 8 updated Section 9 updated Section 11 updated Section 12 updated. Section 15 updated. This safety data sheet supersedes all issues before 1 November 2007.

ISSUED BY

J Waterfield

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DATE December 07

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RISK PHRASES IN FULL

R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials 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, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.