



**ABC CHEMICAL COMPANY**  
Chemicals for the International Printing Industry

## SAFETY DATA SHEET BLAST

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

PRODUCT NAME	BLAST		
APPLICATION	For use as a blanket and roller wash in the lithographic printing industry		
SUPPLIER	ABC CHEMICAL COMPANY	MANUFACTURER	Same as supplier
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### 2 HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R20, R65. Xi;R36/37/38. N;R51/53. R10.

#### ENVIRONMENT

Contains a substance which causes risk of hazardous effects to the environment.

#### 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	10-30%	R10 Xn;R20 Xi;R36/37/38 N;R51/53
2-METHYLSTYRENE	210-256-7	611-15-4	1-5%	Xn;R20 N;R51/53
AROMATIC NAPHTHA (Benzene < 0.1%)	265-199-0	64742-95-6	10-30%	Xn;R65. N;R51/53. R10,R66,R67.
C12-C15 ALCOHOL ETHOXYLATE		68131-39-5	1-5%	Xn;R22. Xi;R41. N;R50.
DIPROPYLENE GLYCOL MONOMETHYL ETHER	252-104-2	34590-94-8	10-30%	-
MESITYLENE	203-604-4	108-67-8	5-10%	R10 Xi;R37 N;R51/53
PROPYLBENZENE	203-132-9	103-65-1	1-5%	R10 Xn;R65 Xi;R37 N;R51/53
TALL OIL	232-304-6	8002-26-4	1-5%	Xi;R36/38.
WHITE SPIRIT (BENZENE <0.1%)	265-185-4	64742-82-1	5-10%	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

#### 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

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! 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.

# BLAST

## 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.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

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

### ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

### 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.

### 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		
DIPROPYLENE GLYCOL MONOMETHYL ETHER	WEL	50 ppm(Sk)	308 mg/m3(Sk)		
MESITYLENE		25 ppm	125 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



**BLAST****ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

Respiratory protection must be used if air contamination exceeds acceptable level.

**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	Clear Liquid		
COLOUR	Brown		
ODOUR	Hydrocarbon		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	102 @ 760 mm Hg	RELATIVE DENSITY	0.90 @ 20
VOLATILE BY VOL. (%)	89.0	pH-VALUE, CONC. SOLUTION	8.2
FLASH POINT (°C)	46 TCC (Tag closed cup).		

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid contact with oxidisers or reducing agents. Avoid heat, flames and other sources of ignition.

**HAZARDOUS POLYMERISATION**

Will not polymerise.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Irritating to respiratory system. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Harmful by inhalation.

**INGESTION**

Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

**SKIN CONTACT**

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin. Contains ingredients which may penetrate the skin.

**EYE CONTACT**

Irritating to eyes.

Name	XYLENE
Toxic Dose 1 - LD 50	4300 mg/kg (oral rat)
Toxic Dose 2 - LD 50	2119 mg/kg (oral-mouse)
Toxic Conc. - LC 50	5000 ppm/4h (inh-rat)
Name	1,2,4-TRIMETHYLBENZENE
Toxic Conc. - LC 50	7230 ppm/1h (inh-rat)
Name	C12-C15 ALCOHOL ETHOXYLATE
Toxic Dose 1 - LD 50	>2000 mg/kg (oral rat)
Name	MIXTURE OF UNSATURATED FATTY ACIDS AND ROSIN ACIDS

**BLAST****12 ECOLOGICAL INFORMATION****ECOTOXICITY**

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

**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.

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 C12-C15 ALCOHOL ETHOXYLATE

**Ecotoxicity**

TOXIC TO AQUATIC ORGANISMS. TOXIC TO SOIL-BASED ORGANISMS

LC 50, 96 Hrs, FISH mg/l 1-10

EC 50, 48 Hrs, DAPHNIA, mg/l 0.1-1

IC 50, 72 Hrs, ALGAE, mg/l 0.1-1

**Mobility**

The product is soluble in water.

**Degradability**

The material is expected to be readily biodegradable 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.

**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	PETROLEUM DISTILLATES NOS (CONTAINS AROMATIC AND ALIPHATIC NAPHTHA)		
UN NO. ROAD	1268	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III		

**BLAST**

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	1268
IMDG CLASS	3	IMDG PACK GR.	III
EMS	FE-SE	MARINE POLLUTANT	



UN NO. AIR	1268	AIR CLASS	3
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

## LABELLING



Harmful



Dangerous for the environment

CONTAINS AROMATIC NAPHTHA (Benzene &lt; 0.1%)

## RISK PHRASES

R10	Flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

## SAFETY PHRASES

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## DETERGENT LABELLING

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

## EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. System of Specific Information relating to Dangerous Preparations. 91/155/EEC

## STATUTORY INSTRUMENTS

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

**BLAST**

## 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 14 updated. This safety data sheet supersedes all issues before 1 February 2008.

## ISSUED BY

J Waterfield

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DATE March 08

## RISK PHRASES IN FULL

NC	Not classified.
R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes 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.