



SAFETY DATA SHEET

C.S.P. PRIMER - BASE RESINS

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME C.S.P. PRIMER - BASE RESINS
 PRODUCT NO. 130/P105/1 & 2 - BASE
 APPLICATION BASE FOR TWO COMPONENT Primer
 SUPPLIER COO-VAR
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 CONTACT PERSON as above

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
METHYL METHACRYLATE	201-297-1	80-62-6	60-100%	F;R11 R43 Xi;R37/38
N,N-bis-(2-hydroxypropyl)-p-toluidine		38668-48-3	< 1	T;R25. R52/53.
N,N-DIMETHYL-PARA-TOLUIDINE	202-805-4	99-97-8	< 1	T;R23/24/25 R33 R52/53

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

3 HAZARDS IDENTIFICATION

Highly flammable. Harmful if swallowed. Irritating to respiratory system and skin. May cause sensitisation by skin contact.

CLASSIFICATION Xn;R22. Xi;R37/38. R43. F;R11.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove soiled, soaked clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.

INHALATION

Move into fresh air and keep at rest. Consult a physician for specific advice.

INGESTION

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. DO NOT INDUCE VOMITING! Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water as an extinguisher.

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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

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Ventilate well. Remove sources of ignition. Dam and absorb spillages with sand, earth or other non-combustible material. Clean-up personnel should use respiratory and/or liquid contact protection. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Mechanical ventilation or local exhaust ventilation is required. Observe workplace exposure limits and minimise the risk of inhalation of vapours and mist. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

STORAGE PRECAUTIONS

Keep containers tightly closed. Store in closed original container at temperatures between 5°C and 25°C. Isolate from other materials. Protect from light, including direct sunrays.

STORAGE CLASS

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR. Up to 50 litres of liquids with a flashpoint below 32C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m3	100 ppm	416 mg/m3

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.

HAND PROTECTION

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Use protective gloves made of: Butyl rubber. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

EYE PROTECTION

Wear tight-fitting goggles or face shield.

OTHER PROTECTION

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

C.S.P. PRIMER - BASE RESINS**HYGIENE MEASURES**

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

PERSONAL PROTECTION

Keep working clothes separate

SKIN PROTECTION

Protection suit must be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless liquid		
ODOUR	Characteristic Methacrylate		
SOLUBILITY	Slightly soluble in water.		
BOILING POINT (°C)	100 kPa	RELATIVE DENSITY	1.02 @ 20 C
VAPOUR PRESSURE	approx 40 Pa @20 C	VISCOSITY	150 - 250 mPas @ 23 C
FLASH POINT (°C)	10 CC (Closed cup).	AUTO IGNITION	430
		TEMPERATURE (°C)	
FLAMMABILITY LIMIT - LOWER(%)	2.1	FLAMMABILITY LIMIT - UPPER(%)	12.5

10 STABILITY AND REACTIVITY**STABILITY**

Danger of bursting of closed systems due to exothermic polymerisation. Avoid uncontrolled polymerisation. Product polymerises on contact with radical generating substances such as peroxides, azo compounds, heavy metal compounds and solutions. Polymerises generating heat. Avoid: Contact with peroxides. Heating above 150C causes formation of Hydrogen Chloride.

HAZARDOUS POLYMERISATION

May polymerise.

HAZARDOUS DECOMPOSITION PRODUCTS

None under normal conditions.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	>5000 (methyl methacrylate); 4435 (2-ethylhexyl acrylate); 172 (N, N-bis(2-hydroxypropyl)-p-toluidine); 996.4 (N, N-dimethyl-p-toluidine) mg/kg (oral rat)
TOXIC DOSE 2 - LD 50	0.6 (ethylhexyl methacrylate) mg/kg (oral-mouse)
TOXIC CONC. - LC 50	29.8 (methyl methacrylate) mg/l/4h (inh-rat)

TOXICOLOGICAL INFORMATION

Acute Dermal Toxicity: LD50 rabbit >5000 mg/kg (methyl methacrylate); >5000 mg/kg (2-ethylhexyl methacrylate). Sensitisation: In sensitisation tests on guinea pigs with and without adjuvant, both positive and negative results were found. In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections), related to methyl methacrylate. May Cause sensitisation by skin contact - related to 2-ethylhexyl acrylate.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

There are no data on the ecotoxicity of this product.

LC 50, 96 Hrs, FISH mg/l	23 - ethylhexyl acrylate
EC 50, 48 Hrs, DAPHNIA, mg/l	17.45 - 2-ethylhexyl acrylate
IC 50, 72 Hrs, ALGAE, mg/l	44 - ethylhexyl acrylate

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13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as special waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11 (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11 (SOLVENT BASED LIQUID WASTE). Neutralised empty packages, are categorised as non-hazardous waste, with code 15 01 02(plastic packaging) or 15 01 04 (metal packaging) Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate hardener and allowed to react fully to produce a solid waste.

14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	Resin solution - containing methyl methacrylate		
ROAD TRANSPORT NOTES	Avoid releasing to the environment.		
RAIL TRANSPORT NOTES	Hazardous constituent: methyl methacrylate.		
UN NO. ROAD	1263	UK ROAD PACK GR.	II
ADR CLASS	Class 3: Flammable liquids.	ADR PACK GROUP	II
RID CLASS NO.	3	RID PACK GROUP	II
UN NO. SEA	1866	IMDG CLASS	3
IMDG PACK GR.	II	EMS	F-E, S-E
MARINE POLLUTANT	No.	UN NO. AIR	1866
AIR CLASS	3	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Harmful



Highly Flammable

CONTAINS

METHYL METHACRYLATE

RISK PHRASES

R11	Highly flammable.
R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R43	May cause sensitisation by skin contact.

SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S37	Wear suitable gloves.

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S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC.

STATUTORY INSTRUMENTS

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

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

GUIDANCE NOTES

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

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

16 OTHER INFORMATION

GENERAL INFORMATION

Only trained personnel should use this material.

REVISION COMMENTS

Major revision (CHIP3) Revisions to sections: (1), (2), (3), (8), (14), (15), and (16) Revision for WEL(Workplace Exposure Limit) section 8. Addition of references to Manual Handling Regulations and Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) in Section 7; Classification of Wastes in Section 13; associated Regulatory References in Section 15.

ISSUED BY

Technical Dept. (P.E.)

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SAFETY DATA SHEET STATUS

Approved.

DATE Date printed_____

SIGNATURE Initials_____

RISK PHRASES IN FULL

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R25	Toxic if swallowed.
R33	Danger of cumulative effects.
R37/38	Irritating to respiratory system and skin.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.