NVIRONMENTAL PROTECTION ACT 1990, Part I
The Environmental Protection (Prescribed Processes and Substances) Regulations 1991
The Environmental Protection (Applications, Appeals and Registers) Regulations 1991

**See Notes on pages 3 and 4 <u>before</u> completing this form.**

# APPLICATION FOR AUTHORISATION to carry out prescribed process
## under section 6 of the Environmental Protection Act 1990

To(1) Huntingdonshire District ................ Council

1 Name and address of applicant (2) *(in the case of a registered Company, name, number and registered office)*

W R Grace Ltd
Northdale House
Northcircular Road, London
Tel.No. 081/965/0611

2 Name and address of premises where process is or will be carried on *(not applicable to mobile processes)*

See attached report
Tel.No.

3 In the case of mobile plant, name and address of the principal place of business

Tel.No.

4 Address for correspondence relating to the application

See attached report

Contact name
Tel.No.

5 List of maps or plans enclosed with the application showing the location of the premises where the process is or will be carried on.

| TITLE | Reference No. |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Where the process is or will be carried on on only part of the premises whose address is given at 2 above, describe which part of the premises and list the plan(s) which identif(y)(ies) this part or these parts.

6 Describe the prescribed process (3) *(use a continuation sheet if necessary)*

See attached report for item 6 - 17 inclusive

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7 When was the plant first installed?

*Please also give the details and dates of any major modifications or improvements which have* been out.

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**8** *List the prescribed substances (and any other substances which might cause harm) used in connection* with or which might be released into the air resulting from the prescribed process.(4)

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**9** Describe the techniques to be used for preventing releases into the air of substances listed above, for reducing such substances to a minimum and for rendering harmless any such substances that are released.(5) *(use a continuation sheet if necessary and attach drawings of plant and equipment, where appropriate)*

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**10** Give details of the source, nature and amount of current and/or anticipated emissions to air from the process. *(use a continuation sheet if necessary)*

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**11** Give the assessment of the likely environmental consequences of the emissions to air. *(use continuation sheet if necessary)*

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**12** What monitoring is or will be carried out of emissions to air?

**13** What monitoring will be carried out of the environmental consequences of emissions to air?

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**14** How will you monitor the techniques described in the answer to question 9?

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**15** State how you will ensure that the objectives listed in section 7(2) of the Environmental Protection Act 1990 will be achieved and how the condition implied by section 7(4) of the Act will be complied with.(6)

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**16** If you have any proposals for improvements which might prevent or reduce emissions, please give details. *(use a continuation sheet if necessary)*

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**17** Give any other additional information which you would like to be taken into account by the local authority in considering your application.

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Official guidance on the best available techniques not entailing excessive cost is published by the Department of the Environment in the process guidance notes for specific industries, copies of which are available from HMSO or can be ordered from certain bookshops. YOU ARE ADVISED TO CONSULT THE PROCESS GUIDANCE NOTE FOR YOUR INDUSTRY BEFORE COMPLETING THIS FORM. YOU MIGHT ALSO FIND IT USEFUL TO READ THE GENERAL GUIDANCE NOTE GG3.(7)

If you require any further information or assistance in completing this form, please contact your local Council at the address shown below.

**Please complete the final section of this form on page 4 overleaf.**

**I enclose the fee of £** (8).
Cheques should be made payable to:

**I HEREBY CERTIFY** that all the information contained in this application is correct to the best of my knowledge and belief [and that I am authorised to sign on behalf of the Company].

*Signature* ..................................................................................................................................

*Official title* ............................................................................................................................

*Date* ........................................................................

**Please complete and return this form together with FOUR copies of each of the plans listed in the reply to question 5 and the required fee to:**

Tel.No.

---

## NOTES

1 This is the local authority in whose area the prescribed process will be carried on, or in the case of mobile plant, the local authority in whose area the applicant has his principal place of business.

2 Please state the person/Company who is operating or will operate the process, not an agent who may be completing the application on the operator's behalf.

3 A list of prescribed processes for local authority control is given in **Appendix A**, which accompanies this form. Further advice can be obtained if necessary from the local authority.

4 A *list of prescribed substances for release into the air is given in* **Appendix B**, *which accompanies this* form. "Harm" includes offence to the senses or harm to property.

5 Please list fully all pollution control measures for all stages of the process, from the receipt of raw materials to the despatch of wastes and finished products, including, for example, the height and location of any stacks or vents; the abatement technology; process control and operational data; arrangements for maintenance; the extent of supervision; the relevant qualifications and experience of the workforce; staff *training; and contingency plans for breakdowns and emergencies.*

All calculations should be shown, particularly for the chimney height(s). Justification for the selection of a particular abatement option should be given.

6 Section 7(2) and 7(4) of the Environmental Protection Act 1990 requires every operator of a prescrib process to use the best available techniques not entailing excessive cost for -
(i) *preventing the release of prescribed substances, or* where that is not practicable, for reducing the release of such substances to a minimum and rendering them harmless; and
(ii) rendering harmless any other substances which might be released.

7 Much of the information contained in the application form will be included in a register which the local authority is required to keep for public examination in accordance with section 20 of the Environmental Protection Act 1990 and the Environmental Protection (Applications, Appeals and Registers) Regulations 1991. Sections 21 and 22 provide for certain information (affecting national security, or commercial confidentiality) to be excluded from the register. Such information should be clearly identified in this application form.

8 £800 in the case of initial applications.
£530 in the case of applications for a substantial change.
£530 in the case of processes transferred from previous HMIP control.
£100 for small waste oil burners.

# Container Solvent Plant

WR Grace Ltd
Cromwell Road,
St Neots

## Application for Authorisation under the Environmental Protection Act 1990

JF/ALB/523

# LIST OF CONTENTS

# APPLICATION FOR AUTHORISATION

## SECTION 6 : ENVIRONMENTAL PROTECTION ACT 1990

## 1.0 NAME AND ADDRESS OF APPLICANT

W R Grace Limited
Northdale House
North Circular Road
London
NW10 7UH

Telephone : 081 965 0611

## 2.0 NAME AND ADDRESS OF PREMISES WHERE PROCESS IS CARRIED ON

Container Solvent Plant
WR Grace Ltd
Cromwell Road
St Neots
Cambridgeshire
PE19 2ER

## 3.0 NOT APPLICABLE

## 4.0 ADDRESS FOR CORRESPONDENCE

Container Solvent Plant
WR Grace Ltd
Cromwell Road
St Neots

Contact Name : Dr John Measures, Plant Manager
Telephone : 0480 475061

## 5.0 LIST OF MAPS/PLANS

1. Ordnance Survey Map.
2. Site Plan.

## 6.0 DESCRIPTION OF PRESCRIBED PROCESS

The Environmental Protection (Prescribed Processes and Substances) Regulations 1991 requires processes involving the manufacture of dyestuffs, printing ink and coating materials to be authorised under the Environmental Protection Act 1990. The criteria for notification to the local authority is whether the process uses 100 tonnes or more of an organic solvent within a 12 month period. The Container Solvent Plant uses in excess of 100 tonnes and hence the application is being submitted as a Part B process for authorisation by the local authority.

The plant produces a dispersion of rubber in a solvent which is used extensively throughout the food industry as a sealant for containers. There are three basic rubbers used styrene butadiene rubber, neoprene rubber and nitrile rubber. The first part of the process involves the production of a rubber master batch which is prepared using a Banbury mixer where the constituents are mixed mechanically to produce a solid rubber mass. This is a coarse mixture which is then transferred to a 2 roll mill located immediately adjacent to the Banbury mixer where further mixing and compounding continues. The resultant compound is then removed from the 2 roll mill in the form of strips or sheets which are then fed to a chipper which cuts the material into small strips. These strips are then fed from the chipper up along the conveyor and then transferred across to the solvent plant from the rubber compounding room. Extraction systems are provided within the rubber compounding room at points 1, 2 and 3 which are shown on the site plan.

The rubber strips are then transferred by conveyor to 1 of 4 mixers shown on the site plan as SW, MM, SSW and EKATO. The rubber is generally dispersed in either hexane which consists of $C_5$-$C_7$ isomers with less than 5% n-hexane, which forms the bulk of the production or a mixture of acetone and propan-1-ol. Other solvents are also used which include isopropanol which is used for the manufacture of liquid fluxes and isopar G which is produced as a nozzle dousing fluid. The mixing process is carried on within closed mixers although they are vented to atmosphere via condensers.

The mixer is constantly agitated by means of a mechanical stirrer and the compound is pumped to bulk storage in one of the five bulk storage tanks shown on the site plan. The compound is then recirculated through a homogeniser to bulk storage.. Figure 1 illustrates a mixer in diagrammatic form. Material Safety Data Sheets in respect of the three main products are contained at Appendices 3, 4 and 5.

The solvents namely hexane and acetone are all stored in bulk tanks located below ground which are vented to atmosphere via vent pipes each of which has a flame trap fitted. The location of the storage tanks is also shown on the site plan.

## 7.0 PLANT INSTALLATION

The plant was first installed in 1972 and since that date there have been a number of modifications, details of which are given below:-

| | |
|---|---|
| 1976 - | second five tonne mixer installed (MM). |
| 1986 - | 3½ tonne acetone mixer installed (EKATO). |
| December 1986 - | 25,000 litre interceptor pit installed. |
| March 1989 - | Pipe bundle type condensers fitted to all bulk tanks and mixing vessels which are terminated exterior to the building via a flame trap.<br>(No's 4-12, Appendix 2).<br>In addition increased pump capacity was provided to give better circulation and therefore better heat exchange and more efficient cooling. |

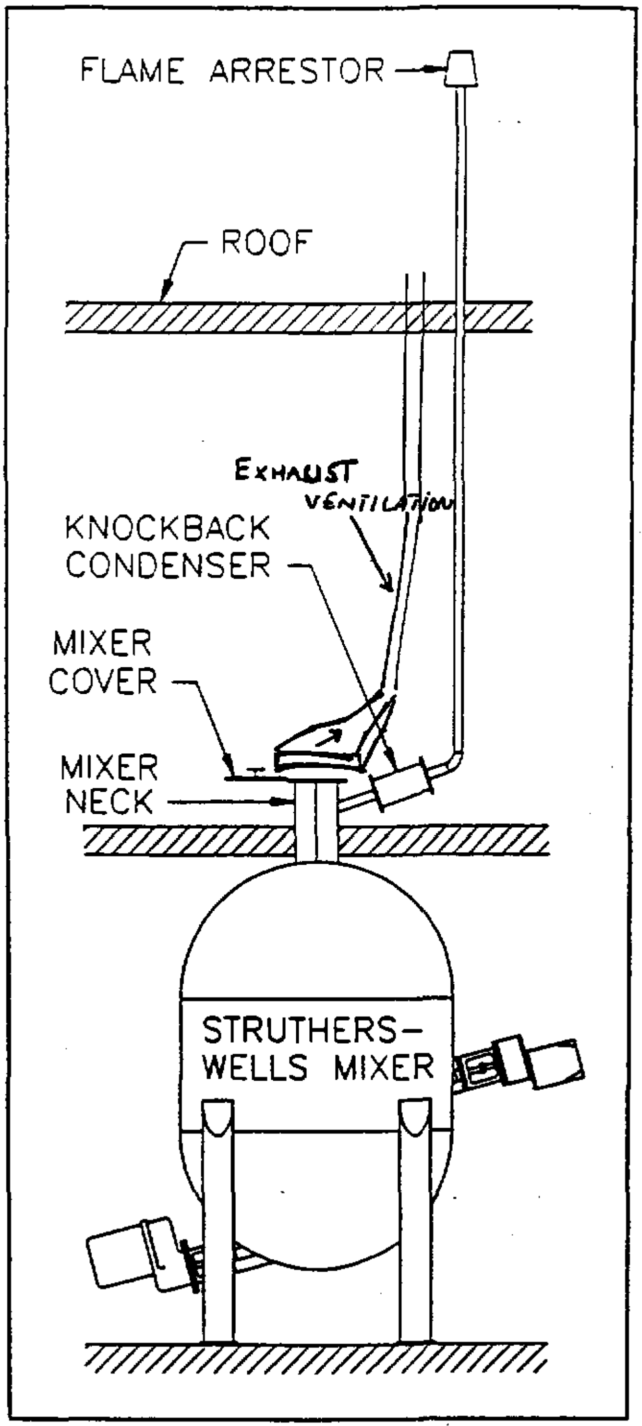


**Figure 1** A Struthers Wells mixer.

April 1989 - A new honeycomb was fitted to the cooling tower to provide more effective cooling and therefore reduce potential solvent emissions.

1990 - The small 2½ tonne Struthers mixing vessel was installed (SSW).

1992 - A 5th bulk storage tank was installed together with a 2 tonne liquid flux kettle (BT5 + LF tank).

- A 600 gallon (2 tonnes) isopropyl alcohol storage tank was also installed. (IPA tank).

August 1991 - The heat exchanger was thoroughly cleaned and descaled which produced a 10°C reduction on the temperature of the mix. This resulted in temperatures on the input side of the homogeniser of between 50-60°C and on the output side of the homogeniser of 30-40°C. The initial boiling point of hexane is 55°C.

## 8.0 THE LIST OF PRESCRIBED SUBSTANCES

Volatile organic compounds.

## 9.0 DESCRIPTION OF TECHNIQUES USED FOR PREVENTING RELEASES

The whole production strategy at the Container Solvent Plant is to reduce losses due to evaporation or other emissions, particularly of hexane and acetone both of which are expensive raw materials and account for something like £250 per tonne.

The first major improvement that was carried to the plant to reduce emissions was the fitting of pipe bundle condensers to each of the vents from each of the mixers and bulk tanks which has had a marked effect in reducing losses in 1989 of approximately 88 tonnes down to 28-48 tonnes which is the current loss rate which represents approximately 1-1½% of total production for hexane based materials. Additional improvements have also been made by way of increasing both the pump capacity to achieve better circulation and also to improve the efficiency of the cooling tower by fitting a new honeycomb and also descaling the heat exchangers. The combined effect of these improvements has resulted in the reduction of the temperature of the cooling water and thereby improved the cooling facilities at the homogeniser which has resulted in the output temperature from the homogeniser being reduced from the initial boiling point of hexane to below it thereby reducing still further the potential for emissions to atmosphere. Emissions to atmosphere from the rubber compounding room are controlled via dust extraction units of which there are 3 which are vented at points 1, 2 and 3 as shown on the site plan.

## 10.0 DETAILS OF SOURCE, NATURE AND AMOUNT OF EMISSIONS

The principal source of the emissions will be via solvent losses from the solvent plant itself from each of the vents to atmosphere as shown on the plan which are numbered 4-15. The principal losses are likely to occur from the mixers and the solvent blending tanks. There will however, be some fugitive emissions which will result from the filling out process and also from the charging of the rubber into the mixer. In the latter case this is achieved by displacing hexane vapour when the rubber master batch is added. Exhaust ventilation is provided around the charge opening of each of the vessels to control vapour principally for the purposes of ensuring that operators are not exposed to significant concentrations of hexane vapour which could endanger their health.

The actual losses which arise from the production facility have been calculated from accurate mass balance calculations which are set out below:

Para 10.1 shows the total losses which have been corrected for loss of moisture, scrap to compound as well as losses due to bag retention and also dust collection in the dust extractors. The corrected figures are shown in Para 10.2.

## 10.1 Hexane Process

### (1) Total Losses

| Period | Production | Total Loss | % Loss |
|---|---|---|---|
| November 1989/October 1990 | 4386001 | 106958(1) | 2.44 |
| November 1990/October 1992 | 4916827 | 48061(1) | 0.98 |
| November 1991/June 1992 | 3354068 | 55981(2) | 1.67 |

Note (1) Total loss is calculated from all raw materials received less product produced corrected for opening and closing stocktake figures.

Stocktaking takes place at October month end each year.

Note (2) Eight month figure based on a stocktake of only solvent and semifinish and consequently inherently less accurate.

### (2) Corrected Losses

The rubbers and fillers used in the process contain volatile components principally water. during the production of a rubstock in a banbury mixer the temperature reaches 130°C and moisture is driven off.

Additionally, during packing of the final product filtration occurs removing any undispersed material.

Filters are cleaned into drums and this waste product is disposed of as notifiable waste losses which can be attributed to these two sources are as follows:-

| | November 1989/ October 1990 | November 1990/ October 1991 | November 1991/ June 1992 |
|---|---|---|---|
| Total loss (kg) | 106958 | 48061 | 55981 |
| Moisture | 9052 | 10167 | 6963 |
| Compound scrapped (2 per month x 170 kg) | 4080 | 4080 | 4080 |
| Less Bag losses | 3702 | 4161 | 2855 |
| Dustextractor Collections | 1150 | 1150 | 1150 |
| Corrected loss (kg) | 88974 | 28503 | 40933 |

Corrections have been made for the following of 0.1 kg per bag.

**Bag Ullage**

| | |
|---|---|
| Bags used November 1989/October 1990 | 37028 x 0.1 = 3702.8 kg |
| Bags used November 1990/October 1991 | 41616 x 0.1 = 4161.6 |
| Bags used November 1991/June 1992 | 28556 x 0.1 = 2855.6 |

**Dust Extractor Collections**

Extraction system collects 25 kg/week = 1150 kg
(46 week year).

### (3) Comparison of Corrected Losses with Solvent Losses

| Period | Solvent Required for Products Produced (1) (tonnes) | Solvent Purchased (2) | Difference | Calculated Corrected Loss |
|---|---|---|---|---|
| November 1989/90 | 2631 | 2683 | 52 | 88.9 |
| November 1990/91 | 2949 | 2982 | 33 | 28.9 |
| November 1991/ June 1992 | 2006 | 2038 | 32 | 40.9 |

Notes : 1. Using average total solids.
2. Receipts corrected for opening and closing balances.

## 10.2 Acetone Process

**Total Losses**

| Period | Production (kg) | Total Loss (kg) | % Loss |
|---|---|---|---|
| November 1989/October 1990 | 288500 | 8197(1) | 2.84 |
| November 1990/October 1991 | 315970 | 4405(1) | 1.39 |
| November 1991/June 1992 | 163970 | 7593(2) | 4.63 |

**Note 1**

Total loss calculated from all raw materials received less product produced corrected for opening and closing stocktake figures.

Stocktaking takes place at October month end each year.

**Note 2**

Eight month figure based on a stocktake of only solvent and semi-finish and consequently inherently less accurate.

### 10.3 Isopar G Process Losses

| Period | Production (kg) | Total Loss (kg) | % Loss |
|---|---|---|---|
| November 1989/October 1990 | 46940 | 952 | 2.03 |
| November 1990/October 1992 | 59940 | 940 | 1.57 |
| November 1991/June 1992 | 34812 | 198 | 0.56 |

The total losses therefore from each of the 3 basic processes are as follows based on 1991/92 mass balance figures.

Hexane process - 40.9 tonnes
Acetone process - 7.5 tonnes
Isopar G process - 0.19 tonnes.

Total VOC loss - 48.95 tonnes per annum.

## 11.0 ASSESSMENT OF LIKELY ENVIRONMENTAL CONSEQUENCES

### 11.1 General

VOC's emitted to atmosphere have the ability to react with other pollutants in the atmosphere principally oxides of nitrogen to form both ozone and other chemicals known as photochemical oxidants. Visibility can be impaired by such particulates formed during the photochemical reaction and the oxidants and their precursors can be transported over long distances. The essential problem is that whilst ozone in the upper atmosphere is essential as a shield against UV radiation from the sun excess ozone near ground level can present a problem if it is not dispersed readily.

11.2 The actual level of VOC emission from the solvent plant amounts to less than 50 tonnes per annum equivalent to approximately 1-1½% of total production throughput. This represents a relatively small amount and hence the potential environmental impact is likely to be insignificant. Over the 20 years that the plant has been in operation there have been no complaints from residents within Cromwell Road even though the emission levels have been higher than those that exist at present.

## 12.0 DETAILS OF MONITORING

Monitoring within the plant has been carried out over a number of years to determine exposure of employed persons to both dust and fume and generally good control has been achieved. As a special exercise however, for the purposes of this application atmospheric monitoring was carried out around the perimeter of the plant to determine the concentration of hexane and in particular any presence of n-hexane. The results of this monitoring are shown in Tables 1, 2 and 3. Table 1 shows the results of the environmental sampling exercise exterior to the plant and Tables 2 and 3 confirm the results of sampling in respect of worker exposure to both dust and fume.

As a general comment there appears to be little cause for concern with very little if any presence being detected of either isohexane or n-hexane.

## TABLE 1

### WR Grace St Neots - Tables and Results

### No 1 Pumped Tube Samplers for Environmental Solvent Emissions

| **Description of Test** | | **Conc$^{n}$ of Solvent in Air (ppm)** | |
|---|---|---|---|
| See Attached Plan for Locations | | **isohexane (all isomers)** | **n-hexane** |
| Large NIOSH carbon tubes, pumped at 200ml/min.<br>Analysis by $CS_2$ desorption and GC. | | | |
| **Samples taken 23th June 1992 (approximately 07.30 to 12.00)** | | | |
| A1 | By entrance gate | ND | ND |
| B1 | On fence near roadway | Trace <0.2 | ND |
| C1 | On fence near boundary | ND | ND |
| D1 | On fence far corner | Trace, 1.4 | ND |
| E1 | On fence railway side | Trace 1.2 | ND |
| F1 | On lamp post 10 ft high | Trace <0.2 | ND |
| G1 | "Worst case" in plant | 19 | ND |
| **Samples taken 24.6.92 (approximately 11.45 to 16.30)** | | | |
| A2 | As above. | ND | ND |
| B2 | As above. | 2.4 | ND |
| C2 | As above. | ND | ND |
| D2 | As above. | ND | ND |
| E2 | As above. | ND | ND |
| F2 | As above. | Trace <1.8 | ND |
| G2 | As above. | 57 | Trace <0.2 |

**Notes:**

1. "Trace" means a slight detection of the substance was found, but that the signal to noise ratio on GC resulted in a reporting error of greater than ± 50%.

   Where the figures is quoted without "trace", error is within 95% confidence limit.

2. All results are time weighted averages over the sampling periods quoted.

3. The occupational exposure standards are as follows: isohexane 500 ppm, n-hexane 20 ppm (reference HSE Guidance Note EH 40/92). Samples G1 and G2 are the only relevant ones to compare directly with this standard.

4. As a "rule of thumb", a figure of one thirtieth of the o.e.s. may be taken as "reasonable" environmental standard as regards hazards to health to persons outside the plant. This gives provisional standards of 16.7 ppm and 0.7 ppm respectively for assessing samples A1-F1 and A2-F2 inclusive.

## TABLE 2

## No 2 Vapour Absorber Badges for Worker Exposure to Solvents

| **Description of Test** | **Conc$^n$ of Solvent in Air ppm** | | |
|---|---|---|---|
| 3M Vapour Badges, exposed full shift, analysis by $CO_2$ desorption and GC | **isohexane (all isomers)** | **n-hexane** | **acetone** |
| **A. Samples Taken 23rd June 1992** | | | |
| OU 4905 operator 1, charging hexane mixer (4 off) and acetone mixer (1 off). | 73 | Trace <0.5 | 75 |
| OU 5088 operator 2, packing hexane based products into drums. | 21 | None detected | - |
| OU 5040 operator 3, general duties around plant. | 1.7 | None detected | - |
| OU 5066 Static "engineering" sample, on Homogenises, running all day. | 166 | Trace <0.5 | - |
| OU 5159 Static sample, mixer conveyor over mixer neck (hexane compound). | 173 | Trace <0.5 | - |
| **B Samples Taken 24th June 1992** | | | |
| OU 5059 operator 1, charging hexane mixer. | 119 | None detected | - |
| OU 4959 operator 2, packing hexane product and acetone product into drums. | 49 | None detected | 35 |
| OU 5042 operator 3, general duties | None detected <0.6 | - | - |
| OU 5063 Static sampler on homogeniser, hexane compound. | 69 | Trace <0.5 | - |
| OU 4986 Static sampler on mixer neck, hexane compound | 165 | Trace <0.5 | - |

**Notes**

"Trace" means an indication on GC but below reliable reporting limits, approximately 1 ppm in air.

A dash in the 3rd column means analysis was not conducted.

## TABLE 3

### No 3 Rubber Dust and Fume Samplers

| **Description of Test** | | **Conc$^n$ of Particulate in Air, mg/m$^3$** | | |
|---|---|---|---|---|
| To HSE MDHS 14 "Rubber Fume" methods with Soxhlet extraction using cyclohexane (See separate notes for production schedules) | | **Total** | **Resp** | **Solvent Soluble** |
| **A** | **Samples Taken 30th June 1992** | | | |
| 1. | Personal, operator 1, mill operator and bag splitting (Cyclone) | 0.89 | 0.30 | - |
| 2. | Personal, operator 2, Banbury operator (Cyclone). | 1.42 | 0.32 | - |
| 3. | Static "engineering" sample, on scales by Banbury mixer (open). | 1.58 | - | 0.40 |
| 4. | Static sample, by small transfer conveyor, on ground floor (open). | 0.84 | - | 0.22 |
| **B** | **Samples Taken 1st July 1992** | | | |
| 1A | as 1 above (Cyclone) | 1.19 | 0.39 | - |
| 2A | as 2 above (Cyclone) | 1.68 | 0.30 | - |
| 3A | as 3 above (open) | 1.33 | - | 0.32 |
| 4A | as 4 above (open) | 0.86 | - | 0.24 |

**Notes**

(1) The reference to "cyclone" above is a miniature Higgs and Dewall personal sampler for respirable and total dust. "Open" refers to 7 hole "UK" heads with pre weighed and solvent extracted GFA filters, for subsequent soxhlet extraction.

(2) A dash in any column means that parameter was not analysed.

(3) OES for rubber fume is 0.6 mg/m$^3$ solvent soluble fraction.

## 13.0 MONITORING OF ENVIRONMENTAL CONSEQUENCES

It is not proposed to carry out any monitoring of the environmental consequences as the monitoring already carried indicates that the current emissions levels are considered to be insignificant in relation to their environmental impact.

## 14.0 MONITORING OF TECHNIQUES FOR PREVENTING RELEASES AND/OR EMISSIONS

There are very limited techniques that can be used for monitoring the effectiveness of the prevention techniques currently employed. The key areas for consideration are regular maintenance of condensing equipment and any plant or equipment associated with the heat exchangers. This will mean therefore a preventive maintenance regime for cleaning out the cooling tower, associated heat exchangers and also for ensuring that the condensers have the correct surface area available and that they are running with the correct level of cooling water flow. No further monitoring at the perimeter of the plant is proposed although monitoring of the workplace will continue for the purposes of the Control of Substances Hazardous to Health (COSHH) regulations.

## 15.0 COMPLIANCE WITH OBJECTIVES IN SECTION 7(2) OF THE ENVIRONMENTAL PROTECTION ACT

In considering the best available techniques available for controlling emissions to atmosphere of VOC's further considerations will include the evaluation of

1. Installation of heat exchangers on the infeed to the homogenisers to reduce the temperature of the compound and thereby reduce any potential emissions.

2. The installation of heat exchangers in the packing lines to reduce the temperature of compound during packing and thereby prevent further any losses etc due to fugative emissions.

## 16.0 POSSIBLE PROPOSALS FOR IMPROVEMENTS

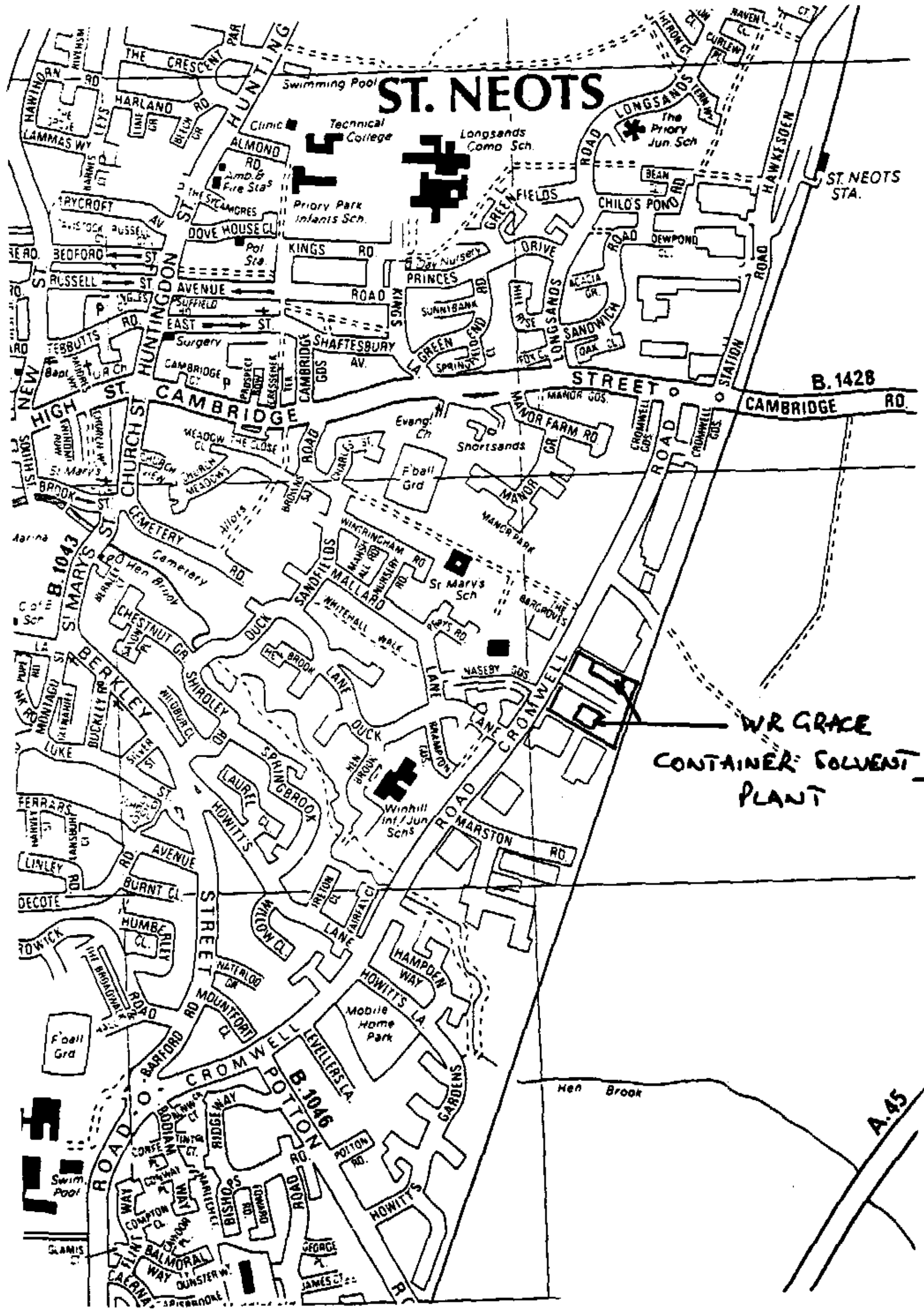
A considerable amount has already been done prior to the introduction of the Environmental Protection Act 1990 to reduce emissions to atmosphere and hence there is very limited scope for further improvement that can be regarded as cost effective within the meaning of BATNEEC. There are possibilities however, in terms for controls and some evaluation may be possible of controlling mixer temperatures by automatic temperature control. There is also a possibility of considering tanker line balancing during off loading of raw materials.

A the present time it is considered that the solvent plant currently operates to BATNEEC standards.

# APPENDIX 1

## ORDNANCE SURVEY MAP OF AREA

SIM (SUPPLY OF SURVEY



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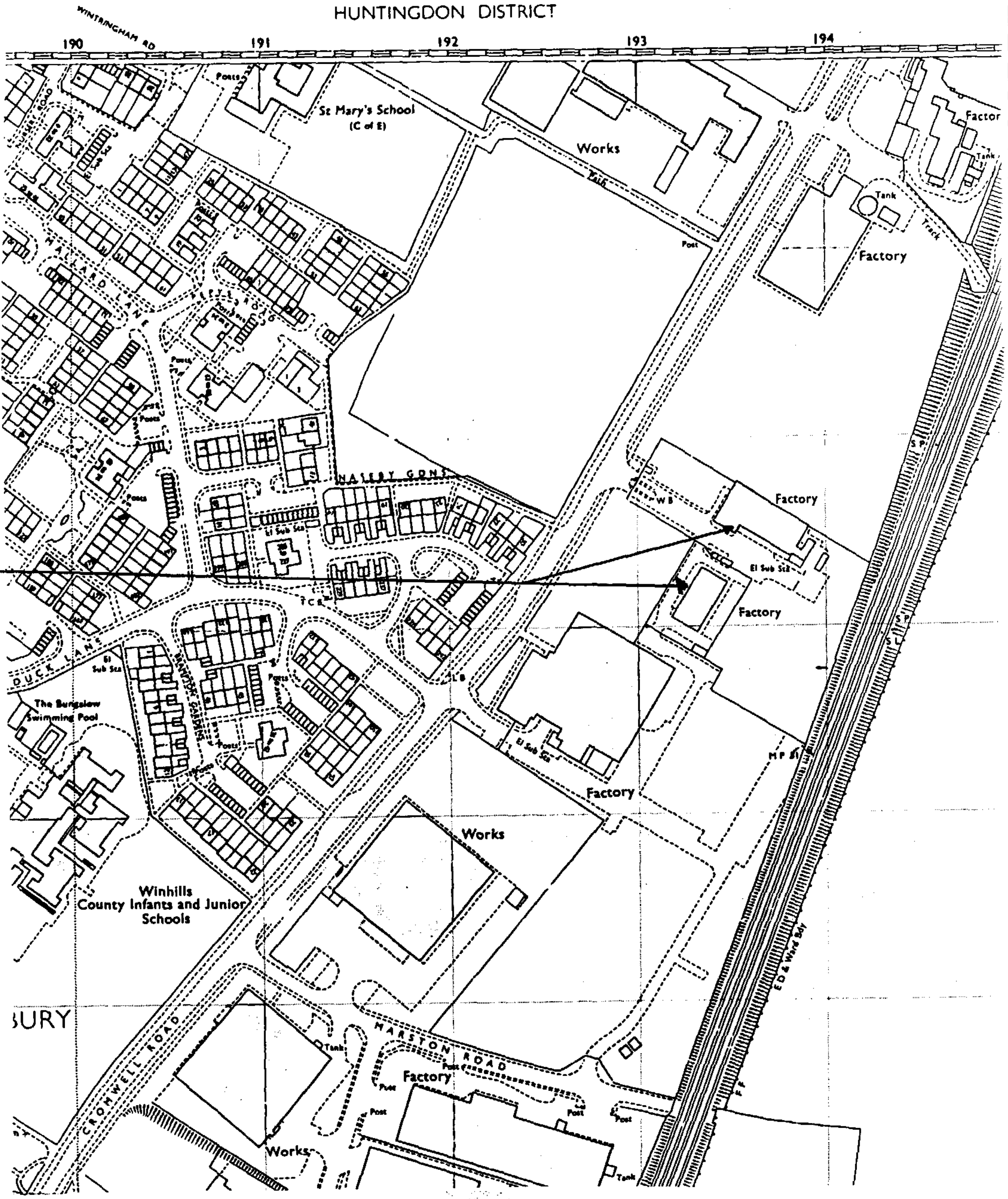
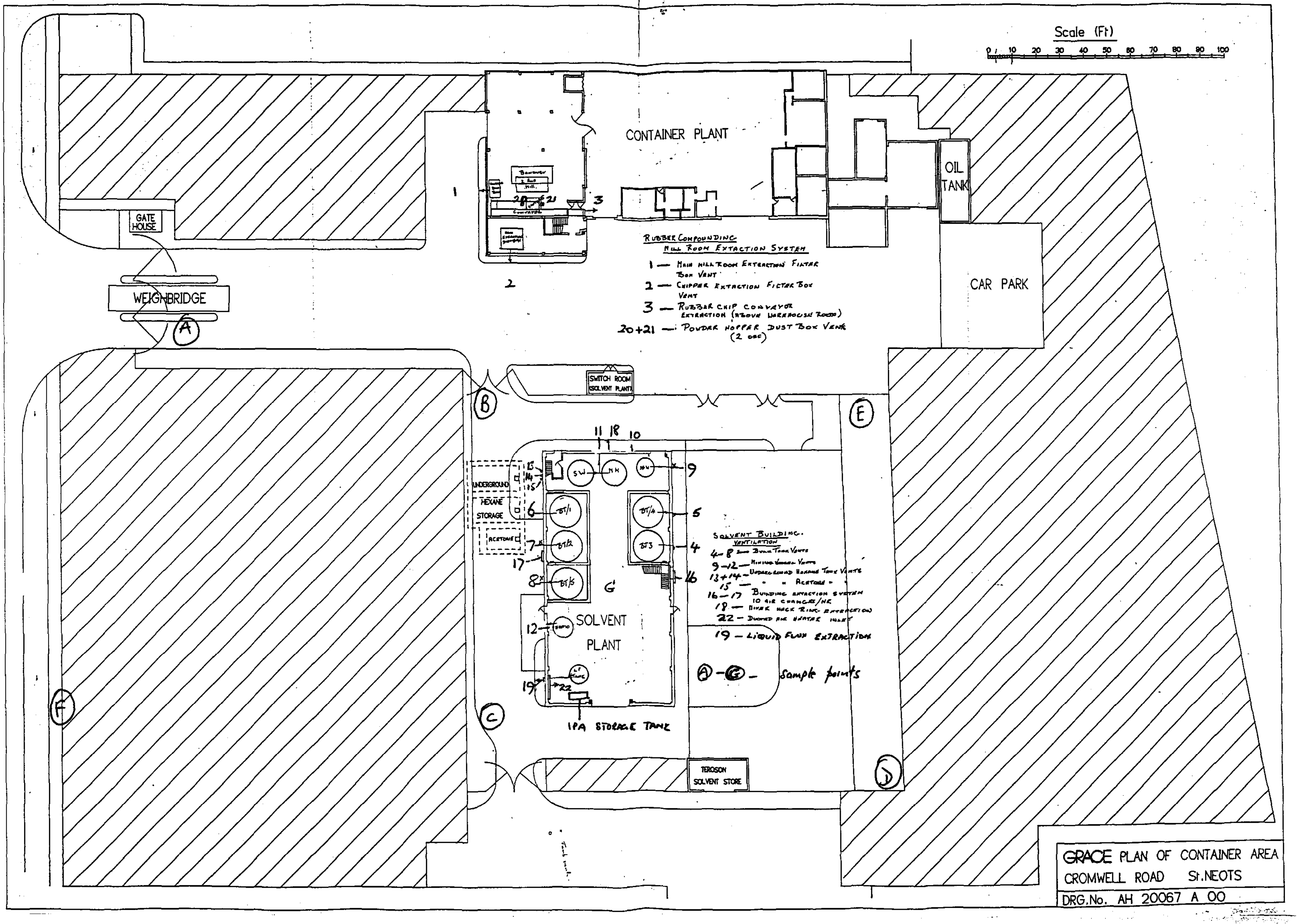


# APPENDIX 2

# SITE PLAN



GRACE PLAN OF CONTAINER AREA
CROMWELL ROAD St.NEOTS
DRG.No. AH 20067 A 00

# APPENDIX 3

# MATERIAL SAFETY DATA SHEET DAREX 100A/39 LVE

# SAFETY DATA

**TRADE NAME:** DAREX SLC 100A/39LVE

## CHEMICAL FAMILY:

Solvent dispersion of a rubber based composition.

## INGREDIENTS:

| | |
|---|---|
| Volatiles:<br>$C_5$ - $C_7$ fraction from petroleum<br>(< 0.1% benzene, <5.0% n-hexane) | 61% w/w |
| Non-volatiles:<br>rubber<br>resin<br>inert mineral fillers<br>pigments<br>antioxidants | 39% w/w |

## PROPERTIES:

Viscous grey dispersion with odour of petroleum.

| | |
|---|---|
| Boiling point | 65-95°C |
| Vapour pressure at 38°C | 330mm Hg |
| Specific gravity | 0.82 |

## FIRE AND EXPLOSION DATA:
($C_5$-$C_7$ fraction)

| | |
|---|---|
| Highly flammable | |
| Flash Point | <-30°C |
| Lower explosive limit | 0.9% v/v |

## FIRE EXTINGUISHING MEDIA:

Use $CO_2$ or dry chemical on small fires; foam or water spray on large fires.

DAREX SLC 100A/39LVE

## SPECIAL FIRE-FIGHTING PRECAUTION:

Fire-fighters should be equipped with self-contained breathing apparatus.

## PRINCIPAL HEALTH HAZARDS:

In high concentrations well in excess of the OES(1) the solvent vapours are irritating to the eyes, nose and throat and cause dizziness, nausea, lack of co-ordination and, ultimately, unconsciousness.

## PRECAUTIONS IN NORMAL USE:

Avoid sparks and open flames.

Avoid inhaling vapour.

Applicable standards: OES(1)

| | |
|---|---|
| n-hexane | 100ppm = 360mg/m$^3$ |
| cyclohexane | 300ppm = 1050mg/m$^3$ |
| n-heptane | 400ppm = 1600mg/m$^3$ |
| pentane (all isomers) | 600ppm = 1800mg/m$^3$ |
| others | 500ppm = 1800mg/m$^3$ |

For the mixture of hydrocarbon isomers in the solvent system present in SLC 100A/39LVE, an OES of 400ppm = 1400mg/m$^3$ is recommended.

Avoid contact with skin and eyes.

Wear impervious gloves, goggles and protective clothing.

# SAFETY DATA

DAREX SLC 100A/39LVE

## IN EVENT OF SPILLAGE:

Absorb onto sand or earth and sweep up. Dispose of in accordance with local authority regulations.

## WASTE DISPOSAL:

This material may be disposed of at official landfill tips under approved conditions in compliance with the requirements of the Control of Pollution Act 1974 and the Control of Pollution (Special Waste) Regulations 1980.

Advice on disposal should always be sought from the Local Authority Waste Disposal Officer; unofficial dumping should be avoided at all times.

Care should be exercised in disposing of 'empty' drums of this material as they are likely to contain solvent vapours in concentrations greater than their lower explosive limit.

## FIRST AID PROCEDURE:

| | |
|---|---|
| Inhalation | Remove from exposure and obtain medical attention. |
| Eye contact | Immediately flush with water for 15 minutes. Obtain medical attention. |
| Skin contact | Wash immediately with soap and water. |
| Ingestion | Do not induce vomiting. Obtain immediate medical attention. |

## REFERENCE:

(1) Occupational Exposure Standard, Recommended Limit in Guidance Note EH 40/89 from the Health and Safety Executive (UK).

# APPENDIX 4

# MATERIAL SAFETY DATA SHEET DAREX SLC 239

# SAFETY DATA

TRADE NAME: DAREX SLC 239

## CHEMICAL FAMILY:

Acetone dispersion of a rubber based composition.

## INGREDIENTS:

Volatiles:

| | |
|---|---|
| acetone | 53.5 |
| propan-1-ol | 3.0 |
| | 56.5% w/w |

Non-volatiles: 43.5%

- rubber
- resin
- inert mineral fillers
- pigments
- antioxidants

## PROPERTIES:

Viscous grey dispersion with odour of acetone.

| | |
|---|---|
| Boiling point (acetone) | 56°C |
| Specific gravity at 20°C | 1.03 |

## FIRE AND EXPLOSION DATA:
(Acetone)

| | |
|---|---|
| Highly flammable | |
| Flash Point CC | 0°C |
| Lower explosive limit | 2.6% v/v |

## FIRE EXTINGUISHING MEDIA:

Use $CO_2$ or dry chemical on small fires; foam or water spray on large fires.

DAREX SLC 239

## SPECIAL FIRE-FIGHTING PRECAUTION:

Fire-fighters should be equipped with self-contained breathing apparatus.

## PRINCIPAL HEALTH HAZARDS:

Acetone vapours is irritating to the eyes, nose and throat.
Propan-1-ol vapours are harmful by inhalation and irritating in the eye.

## PRECAUTIONS IN NORMAL USE:

Avoid sparks and open flames.

Avoid inhaling vapour.

Applicable standards: OES (1)

| | |
|---|---|
| acetone | 1000ppm = 2400mg/$m^3$ |
| propan-1-ol | 200ppm = 500mg/$m^3$ (sk) |

Avoid contact with skin and eyes.

Wear impervious gloves, goggles and protective clothing.

## IN EVENT OF SPILLAGE:

Flush away with large volumes of water into sewer in accordance with local authority regulations.

# DAREX SLC 239

## WASTE DISPOSAL:

This material may be disposed of at official landfill tips under approved conditions in compliance with the requirements of the Control of Pollution Act 1974 and the Control of Pollution (Special Waste) Regulations 1980.

Advice on disposal should always be sought from the Local Authority Waste Disposal Officer; unofficial dumping should be avoided at all times.

Care should be exercised in disposing of 'empty' drums of this material as they are likely to contain solvent vapours in concentrations greater than their lower explosive limit.

## FIRST AID PROCEDURE:

| | |
|---|---|
| Inhalation | Remove from exposure and obtain medical attention. |
| Eye contact | Immediately flush with water for 15 minutes. Obtain medical attention. |
| Skin contact | Wash immediately with soap and water. |
| Ingestion | Do not induce vomiting. Obtain immediate medical attention. |

## REFERENCE:

(1) Occupational Exposure Standard, Recommended Limit in Guidance Note EH 40/89 from the Health and Safety Executive (UK).

# APPENDIX 5

# MATERIAL SAFETY DATA SHEET DAREX SLC 9291E/E

# SAFETY DATA

TRADE NAME: DAREX SLC 9291E/E

## CHEMICAL FAMILY:

Solvent dispersion of a rubber based composition.

## INGREDIENTS:

| | |
|---|---|
| Volatiles:<br>$C_5 - C_7$ fraction from petroleum<br>(< 0.1% benzene, <5.0% n-hexane) | 57.0% w/w |
| Non-volatiles:<br>rubber<br>resin<br>inert mineral fillers<br>pigments<br>antioxidants | 43.0% w/w |

## PROPERTIES:

Viscous grey dispersion with odour of petroleum.

| | |
|---|---|
| Boiling point | 65-70°C |
| Vapour pressure at 38°C | 330mm Hg |
| Specific gravity | 0.85 |

## FIRE AND EXPLOSION DATA:
($C_5$ - $C_7$)

| | |
|---|---|
| Highly flammable | |
| Flash Point | <-30°C |
| Lower explosive limit | 0.9% v/v |

## FIRE EXTINGUISHING MEDIA:

Use $CO_2$ or dry chemical on small fires; foam or water spray on large fires.

## DAREX SLC 9291E/E

### SPECIAL FIRE-FIGHTING PRECAUTION:

Fire-fighters should be equipped with self-contained breathing apparatus.

### PRINCIPAL HEALTH HAZARDS:

In high concentrations well in excess of the OES(1) the solvent vapours are irritating to the eyes, nose and throat and cause dizziness, nausea, lack of co-ordination and, ultimately, unconsciousness.

### PRECAUTIONS IN NORMAL USE:

Avoid sparks and open flames.

Avoid inhaling vapour.

Applicable standards: OES (1)

| | |
|---|---|
| n-hexane | 100ppm = 360mg/m$^3$ |
| cyclohexane | 300ppm = 1050mg/m$^3$ |
| n-heptane | 400ppm = 1600mg/m$^3$ |
| pentane (all isomers) | 600ppm = 1800mg/m$^3$ |
| others | 500ppm = 1800mg/m$^3$ |

For the mixture of hydrocarbon isomers in the solvent system present in SLC 9291E/E, an OES of 400ppm = 1400mg/m$^3$ is recommended.

Avoid contact with skin and eyes.

Wear impervious gloves, goggles and protective clothing.

IN EVENT OF SPILLAGE:

Absorb onto sand or earth and sweep up. Dispose of in accordance with local authority regulations.

WASTE DISPOSAL:

This material may be disposed of at official landfill tips under approved conditions in compliance with the requirements of the Control of Pollution Act 1974 and the Control of Pollution (Special Waste) Regulations 1980.

Advice on disposal should always be sought from the Local Authority Waste Disposal Officer; unofficial dumping should be avoided at all times.

Care should be exercised in disposing of 'empty' drums of this material as they are likely to contain solvent vapours in concentrations greater than their lower explosive limit.

FIRST AID PROCEDURE:

| | |
|---|---|
| Inhalation | Remove from exposure and obtain medical attention. |
| Eye contact | Immediately flush with water for 15 minutes. Obtain medical attention. |
| Skin contact | Wash immediately with soap and water. |
| Ingestion | Do not induce vomiting. Obtain immediate medical attention. |

REFERENCE:

(1) Occupational Exposure Standard, Recommended Limit in Guidance Note EH 40/89 from the Health and Safety Executive (UK).

```
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MISC W R GRACE LTD, CONTAINER SOLVENT PLANT

## Items For Sale

**1 1/2 Tons.** Soft building sand suitable for brickwork, left over from extension £25. Delivered free 0487 710349

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New Clean Hardcore £8 per tonne

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**Tel: (0487) 710349 Anytime**

## Public Notices

### ENVIRONMENTAL PROTECTION ACT 1990, PART 1.

### APPLICATION FOR AUTHORISATION

W R Grace limited has applied for an authorisation from *Huntingdonshire District Council* to operate a prescribed process, namely the manufacture of a solvent based coating material at Container Solvent Plant, Cromwell Road, St. Neots, Cambs PE19 2ER.

A copy of the application is available for public inspection, free of charge, at Pathfinder House, St. Marys Street, Huntingdon, Cambs PE18 6TN.

Written representations about the application may be sent to Huntingdonshire District Council at the above address within 28 days.

**FOR** *Sale ladies sheepskin* jacket excellent quality and condition. *Bargain price £24 No* offers tel (0480) 69439.

**GRAND CANYON** *electric racing car set used twice £15, spin dryer vgc £10. Budgie cage £10.* Phone 0480 453890

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***HUNTINGDON SALE ROOMS*** Offer for sale: Victorian double *dropend sofa, chestnut colour.* dralon £250. Large yew table and 6 dining chairs and 2 carvers £300. Sanderson print settee and 1 *chair £85. Set four* rope back chairs £140. Set six *ercol chairs (need stripping)* £100, pair blade back chairs £60. *Tin trunks from £25-£85. Satin*wood linen press, mirror front, *8ft long £600, bow front display* cabinet £85. Glass top table and *6 chairs £65. Chest freezer £55,* Masses of brica, plus new items *arriving daily. Why not pay us* a visit at Fagins Yard R/O 91 *High Street, H'don (between* Pizza Bar and Nat West Bank) *Open 9.30 - 5 Mon-Sat, Wed* 9.30-2 Tel 0480 450998

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**ANN** Summers demonstrators required, for details and party bookings call Karen (0480) 477026.

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## 14-Personal

**AUTOJUMBLE** this Sunday, 10am - 4pm, East of England Showground, Peterborough. see Entertainments page.

**HE HOLDS** down a responsible, well paid job but admits he's lonely at heart, 52, divorcee, he enjoys music and travel. Contact Kathleen Kent Friendship Bureau, Rosemary house, Lanwades Business park, Kentford, Newmarket, tel 0638 751466.

**LET CLASSIFIEDS WORK FOR YOU !!**

## 19-Heart to Heart

**ABANDONED** 1956 model, no ties, good bodywork, reliable engine seeks lady with tow rope for long lasting loving relationship. Please reply Box No.P 3952 (see panel)

**DIVORCED** fun loving male 46 slim, caring, own house and car, seeks lady 30-50 for friendship or more. Please reply Box No.P 3951 (see panel)

## 19-Heart to Heart

**GENTLEMAN** divorced 42, sincere caring wanting to meet similar lady 30-40 for friendship, possible romance, photo if possible please. Please reply Box No.P 4037 (see panel)

**HI TECH FOOTBALL** boots size 8 as new bargain only £5. Tel 0480 218677. Please reply Box No.P 3950 (see panel)

**MALE** 17 Warped sense of humour, seeks caring sensitive female, looks not important. Please reply Box No.P 4007 (see panel)

**PROFESSIONAL MALE** 36, non smoker, own home, offers warm loving, caring relationship to sincere female any age. Please reply Box No.P 4036 (see panel)

**1946 VIRGO FEMALE** Good condition, fair, 5ft. Two previous owners. Needs TLC. Smokes a little. Photo please. Please reply Box No.P 4008 (see panel)

**DISILUSIONED ROMANTIC** Female 45, recently moved would like to meet friends, male/female to help her find happiness and company. Please reply Box No.P 4009 (see panel)

## 22-Public & Legal Notices

### ENVIRONMENTAL PROTECTION ACT 1990, PART 1
### APPLICATION FOR AUTHORISATION

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A copy of the application is available for public inspection, free of charge, at Pathfinder House, St Marys Street, Huntingdon, Cambs PE18 6TN.

Written representations about the application may be sent to Huntingdonshire District Council at the above address within 28 days.

2343.36

### KATHLEEN ANNIE HIBBERD - DECEASED

PURSUANT to the Trustee Act 1925 ALL PERSONS having claims against or claiming to be beneficially interested in the estate of Kathleen Annie Hibberd late of 28 Main Street, Hartford, Huntingdon, Cambridgeshire who died on the 28th day of July 1992 are required to send particulars thereof in writing to the undersigned on or before the 19th November 1992 next after which the Executor will proceed to distribute the assets having regard only to the claims of which he has then had notice.

Dated this 17th day of September 1992.

**Leed Day**
**Solicitors to the said Executor**

7/8 Market Hill
Huntingdon, Cambs
PE18 6NT

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## 25-Tuition

**SUZUKI PIANO PROGRAM** Specialised tuition for children aged 3-5 years. Classes in Cambridge and Peterborough. Ms Betty Benner. (0778) 347794.

## 57-Accomodation To Let

**COTTAGE TO LET** until 30th April, 1993. Unfurnished, 3 bedrooms, four miles north of St Neots, £275 p.c.m. no pets. Apply by 30th September 1992 to Smith Woolley, Collingham, Newark, Notts, NG23 7LG. Tel

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### THE COUNTY OF CAMBRIDGESHIRE (40mph SPEED LIMIT) (No7) ORDER 1992
### IMPOSITION OF 40mph SPEED LIMIT AT BROUGHTON

NOTICE is hereby given that on the 8th September 1992, the County Council made an Order under Sections 84(1) and 84(2) of the Road Traffic Regulation Act 1984, the effect of which is to impose a 40mph speed limit in Broughton as follows:

School Road – From its junction with Bridge Road and Causeway Road in a north westerly direction for a distance of 450 metres.

Bridge Road – From its junction with School Road and Causeway Road in a south westerly and south easterly direction for a distance of 650 metres.

Causeway Road – From its junction with School Road and Bridge Road in a north easterly and south easterly direction for a distance of 435 metres.

A copy of the Order, which comes into operation on the 21st September 1992, together with a map showing the roads and lengths of road concerned, may be examined at the office of the undersigned, and at the offices of The Chief Executive, Huntingdonshire District Council, Pathfinder House, St. Mary's Street, Huntingdon during normal office hours.

Any person wishing to question the validity of the Order or of any provision contained in it on the grounds that it is not within the powers conferred by the Road Traffic Regulation Act 1984 as amended, on the grounds that any requirement of that Act or of any instrument made under it has not been complied with in relation to the Order may, within six weeks from the 8th September 1992, apply to the High Court for this purpose.

J.M. SHARPE, Director of Transportation, Shire Hall, Castle Hill, Cambridge CB3 0AP.

16th September 1992.

### CAMBRIDGESHIRE COUNTY COUNCIL
### NOTICE OF CONFIRMATION OF RECLASSIFICATION ORDER
### WILDLIFE AND COUNTRYSIDE ACT 1981

Definitive Map and Statement of Public Rights of Way for the former County of Huntingdon dated 9th September 1953 as reviewed 14th December 1961.

The County of Cambridgeshire (RUPP No.3 Waresley) Definitive Map Reclassification Order 1991.

On 26th August 1992, following a local public inquiry, an Inspector appointed for the purpose by the Secretary of State for the Environment confirmed the above named order. The effect of the order, as confirmed, is to modify the Definitive Map and Statement for the area by reclassifying as a Byway Open to All Traffic the Road Used as a Public Path No.3 Waresley commencing on the St. Neots Road by Wildmere Plantation and running in a easterly direction to its termination on the St. Ives Road, opposite Bridleway No.4.

Copies of the order and the map contained in it have been deposited at the offices of the Chief Executive, Huntingdonshire District Council, Pathfinder House, St. Mary's Street, Huntingdon and of the undersigned and may be inspected free of charge during normal office hours or purchased at a cost of £2 from the address below.

The order became operative as from 26th August 1992, but if any person aggrieved by the order desires to question the validity thereof, or of any provision contained therein on the ground that it is not within the powers of the Wildlife and Countryside Act 1981, or on the ground that requirement of the Act, or of any regulation made thereunder, has not been complied with in relation to the order, they may before Thursday 29th October 1992 make any application of the purpose to the High Court.

Dated this Thursday 17th September 1992.

J.M. SHARPE, Director of Transportation, Castle Court, Shire Hall, Cambridge CB3 0AP.

Cambridgeshire County Council

### DEPARTMENT OF TRANSPORT
### ROAD TRAFFIC REGULATION ACT 1984 - SECTION 14(1)
### THE A1 TRUNK ROAD (STIBBINGTON TO WATER NEWTON AND MORBORNE TO NORMAN CROSS ROUNDABOUT, CAMBRIDGESHIRE) (TEMPORARY PROHIBITION AND RESTRICTION OF TRAFFIC) ORDER 1992

Notice is hereby given that the Secretary of State for Transport proposes to make an Order on the A1 Trunk Road in Cambridgeshire.

The Order, which is being made to enable resurfacing work to be carried out on the southbound carriageway of the A1 Trunk Road between Stibbington and Water Newton and between Morborne turn and Norman Cross Roundabout will be in force when the appropriate signs are erected from 21 September 1992 until the works are completed. The work is expected to start on 5 October 1992 and will last approximately 3 weeks.

The effect of the Order will be to prohibit vehicles commencing at 1900 hours for a period of 11 hours, from -

a) proceeding at a speed exceeding 30 miles per hour in the southbound carriageway,

b) using the layby located at: 300 metres north of the Nene Valley Railway, 600 metres north of the Nene Valley Railway, 1300 metres north of the Nene Valley Railway, or 710 metres south of Morborne turn.

Access to Manor House 400 metres south of the Nene Valley Railway and the Bungalow 1030 metres south fo Morborne turn will be maintained.

Any vehicle being used in connection with the said works or for police, fire brigade or ambulance purposes will be exempt from the restrictions imposed during the works.

**MRS T NASH**
**A Higher Executive Officer**
**In the Deparment of Transport**

12476.36

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