Annex D
Health & Safety in Support of MEP 4

Document Number:	**1912 -000- AD**
Site Name:	**Lincolns Inn TA Centre**
Site Number:	**1912**
Issue No:	**1.0**
Date of Issue:	**19th January 2009**

ATLAS
Titan House
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TF3 4LY

All changes between versions of the template should be recorded here

Document Template - Change Control History				
Issue Level	**Section/Paragraph Change**	**Details of Change**	**CIR No**	**Date**
A	All	Reformatted in line with other MEP documents		23/02/06
B	All	Document amended to include revisions by Neil Purnell (version 2A)		28/03/06
C	Headers and footers	Final document issue		16/06/06
D	Headers and Footers	Final document issue		01/05/07
E	Combine relevant information from addenda 2 and 4	Incorporate Comments from SJ		18/12/07
1	Rename as Annex D Issue 1	Issued by Neil Purnell		17/01/08

All changes between versions of the document when it is used for a site should be recorded here

Live Document -Change Control History				
Issue Level	**Section/Paragraph Change**	**Details of Change**	**CIR No**	**Date**
1.0	N/A	Initial Issue		19/01/2009

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INTRODUCTION

A Site Construction Phase Plan (SCPP) is the most important strategic management tool in safeguarding health and safety on site. To be effective the plan must be adequately detailed initially and developed as the construction phase proceeds. To satisfy the requirement of The Health and Safety at Work Etc. Act 1974, The Construction (Design and Management) Regulations 2007 and aspects of the ATLAS MEP 4 'Gateway' the following information for controlling site health and safety is to be entered in the Annex D. The submissions entered in this document will then be added to the outlined SCPP. This document will be on site and will be a readily accessible source of information ensuring that the site is a safer place to work.

i. Health & Safety

To ensure that all relevant Health & Safety regulations are fully adhered to, Health & Safety requirements can be broken down to the following responsibilities:

a. The Client (MoD) have a duty to ensure that there are reasonable management arrangements in place throughout the project to ensure that the construction work can be carried out, so far as is reasonably practicable, safely and without significant risk to health.

b. MOD Establishment/Site has a legal responsibility to ensure that everyone who attends will be given a site specific H&S briefing before any commencement of work. After the initial MOD induction all other ATLAS site visitors will be inducted by the ATLAS Site Project Manager (SPM) who will record name, date, time and a signature.

c. The CDM-Coordinator (CDM-C) is required to review and comment on the adequacy of the passive contractor's annex D when the work exceeds 25 days[1]. For work content less than 25 days or 500 person days (e.g. 50 people working for less than 10 days) the ATLAS Health and Safety Manager will undertake this review. This review and ATLAS approval will be completed before any installation activities begin at site. ATLAS Health and Safety will then transmit via hand, courier or other secure means the adequate SCPP to Site.

d. Designers have a key role to play in CDM2007. Designers are required to avoid foreseeable risks "so far is reasonably practicable" taking due account to other of other relevant design considerations. The greater the risk, the greater weight that must be given to eliminating or reducing it.

ii. MEP 4 Annex D Contents

The contents of this Annex will comprise of the Project Information Section, in which the passive contractor shall provide a level of detailed information relative to the actual site installation. This will take into account any information provided by the CDM-C with regard to Hazards and Risks on site they have recorded and any other relevant information in their Pre-Construction Information (PCI). At the end of the Project Information Section the passive contractor should include ONLY the risk assessments relevant to the site along with method statements where appropriate[2].

[1] Regulations Specify 30 days, the limit of 25 days has been agreed to allow for a maximum over-run on 5 working days. If longer were agreed then 30 day limit could be breached.

[2] These Site Specific Risk Assessments must identify Hazards and the potential risk arising from these hazards to the Health, Safety and Welfare of the Client, Contractors, Visitors, Members of the Public and Emergency Services who may have reason to attend the site.

Project Information

1. Site Name, Number, Address

(Site Name): Lincolns Inn TAC Centre

(Site ID Number): 1912

(Site Full Postal Address): 10 STONE BUILDINGS
LINCOLNS INN
LONDON
WC2A 3TG

2. Detailed Description/Scope of Work to be carried out

OSP Works On Site				
From Building	**To Building**	**Civil's Description**	**New Duct Network**	**Reuse Ductwork**
N/A	N/A	N/A	N/A	N/A
OSP Expected Duration – Nil Days - Nil New Fibre Optic Cables				

ISP Works On Site											
Building	**Type**	**NER**	**Cab Type**	**Install 100x100**	**Install 50x50 or Less**	**Conduit Drops**	**Reuse Required**	**Work Above 4m**	**Approx Taps**	**CAT5e**	**Fibre**
001	Admin & Municipal	NER	42U	Yes	Yes	Yes	Yes	No	26	Yes	P/Leads
ISP Expected Duration – 10 Days											

Works Above 4 Metres in Height		
Building	**Building Location**	**High Level Works Description**
N/A	N/A	N/A

3. Delivery and Removal of Materials (including Waste)

Delivery:

Where possible, Materials will be delivered to site in smaller more manageable containers to aid with their actual storage and minimise the risk of injury when lifting materials and transiting these materials across site. Manufacturer's recommendations for storage will be followed at all times. Palletised loads will Not exceed two pallets in height. Loads will be lifted in the correct manner.

Disposal/Removal:

Installation rubbish and debris will be managed in a safe and appropriate manner and transferred to an area, previously agreed with site, for storage of rubbish and debris. Any rubbish and debris caused by the installation will be removed from site on a weekly basis. Once this rubbish has been removed from site, it will disposed of in the appropriate manner at the appropriate facility in accordance with our Company Health & Safety Policy.

Waste materials will be stored in company vehicles' at the end of each day. This will be transported back to the company premises and disposed of in accordance with the company waste management policy.

4. Site Specific Hazardous Areas / Situations / Substances

4.1 Site Specific Situations:

No areas requiring a permit to work have been identified. Should they be required It has been agreed during our site visit that the SPM on site will arrange for the issuing of these permits in a timely manner and in accordance with the local site regulations. Electranet UK will abide by the conditions laid down by the permit issuing authority and comply with any and all local site regulations

Captain Ian Wadley must be advised by the lead engineer of any drilling that is due to take place so that alarms for the armoury/ammo store can be isolated.

Due to the nature of the site and following on from previous visits we have identified the following Site Specific Risks/Situations:

.

Specific Risk/Situation	Control Measures
RAD/HAZ There is an amount of low level RAD/HAZ items located in the armoury in the basement within the site.	They are stored separately in clearly marked, lockable containers. These items are strictly controlled under the auspices of the Unit Radiation Safety Officer and have controlled access.
Bldg: 001 **Heritage site, listed building.** There is a steep staircase which provides access to the basement area. Vermin pest control bait boxes are also In the basement area where the NER room will be located. A section of the proposed cable route also enters a room which contains memorabilia and this material should be protected. The site is surrounded by Inns of Court buildings which will be in constant use, consideration should be given to adjacent building users e.g. noise generated during the works and members of the public using the pavements outside the building.	**The design of the installation has been detailed in order to take into account the nature of the building. Engineers are to follow the design and are not to deviate** without approval. Extra care is to be taken when navigating the staircase and engineers are to be reminded of the dangers of Leptospirosis. They are to carry the Leptospirosis card attached to the bottom of this document.. Before commencing work in the room with memorabilia site lead is to be made aware of the works and items within the room are to be suitably protected with dust sheets and removed where needed. Work is to be co-ordinated with site lead in order to minimise disruption to surrounding buildings who are to be informed of any work concerning noise. Otherwise all usual installation practices for safe working will be applied and adhered to.

4.2 Asbestos Specific Situations:

The design has been prepared to eliminate or avoid foreseeable risks from asbestos containing materials so far as is reasonably practicable. The SPM is to ensure the register is checked prior to any works commencing due to possible changes in route that may occur outside of the design.

In the event asbestos is suspected during installation that we have not been made aware of, the work shall cease, and the area made safe. The area shall then be handed back to the Authority (MOD) for further investigation.

The Site Lead/ SHEF shall be notified to arrangements made to determine the potential levels of exposure to operatives and occupants of the building.

If there is any suspicion of asbestos present in the work area then a sample shall be taken by a specialist sub-contractor (NAMAS Registered) and analysed to determine the construction of the unknown material. The outcome of these results will determine the course of action to be taken in making the area 'safe'.

In the event of confirmation of the presence of asbestos the removal shall be carried out ONLY by a company licensed in asbestos removal, working under the relevant Codes of Practice/ Regulations. After asbestos removal, air monitoring shall be carried out. If the levels recorded are below 0.01fibres/ ml then the area is considered 'safe' for Normal activities.

Operators/engineers will be trained in asbestos awareness and a copy of an individual's certificate or a letter on company headed paper listing individuals and signed by a company officer will be presented to the SPM to be held on the site SCPP file by the Atlas SPM.

4.3 Working at height hierarchy summary table:-

Hierarchy	Yes / No	Onsite Location
Mobile Elevated Work Platforms	No	N/A
Access Tower	No	N/A
Indoor Mini Scaffold	Yes	Bldg 001
Podium Steps	Yes	Bldg 001
Step Ladders Class A	Yes	Bldg 001

5. Vehicles and Plant brought to site

At the time of writing we are unable to confirm the vehicles that will be brought on to site. These vehicles will be identified nearer the installation start date and will be made available to the SPM prior to arriving.

These details can then be forwarded by the SPM to Lincolns Inn TA Centre Security to ensure access is made available to the arriving workforce.

Consideration has been given to the height of the vehicles based on the possibility of site installed Telecom cables. With this in mind and to prevent any cable breakages, No high sided vehicles will be brought on to site by Electranet UK. The vehicles will be small vans such as Vauxhall Combo's and/or saloon or estate cars.

The following plant will be brought to site:

- Small Hand Tools & Small Tools
- Cable Pulling Rods, Cobra & Draw Wires
- Drills – Battery & 110
- Access Towers
- Ladders/Steps
- Cable Rollers

6. Emergency Arrangements

First Aid will be managed on site and administered where necessary by Laurence Jones who is a Qualified First Aider. Laurence Jones is also the Senior Lead Engineer leading the Installation and his certificates will have been submitted to the SPM prior to installation. The nearest hospital with A&E facilities to the establishment is

University College London Hospitals
NHS Trust
235 Euston Road
London
NW1 2BU

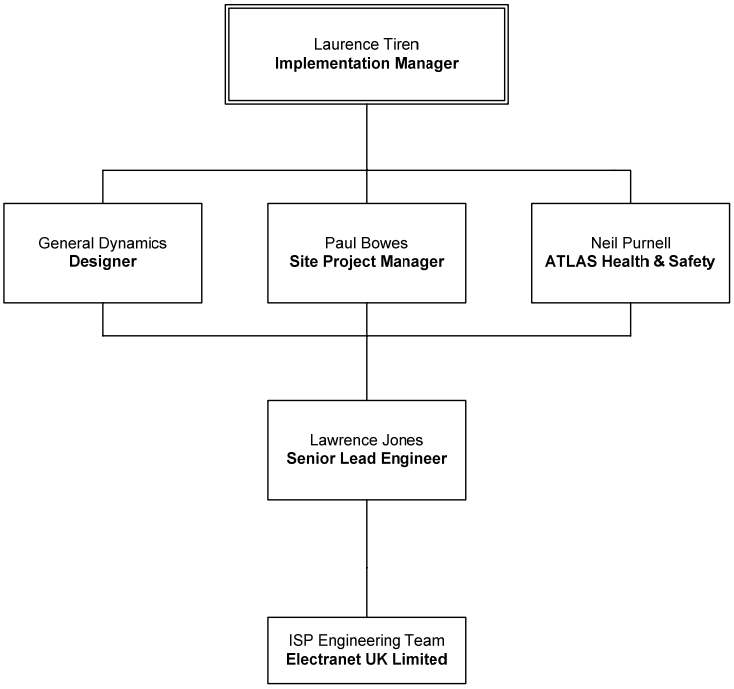
Tel No: 0845 155 5000

The Hospital is approximately 1.7 miles in distance from the establishment with an approximate journey time of 7 minutes. In the event of an Accident or Emergency please Dial 2222 on internal MOD lines or 999 from any external line or mobile phone. Fire and incident procedures are detailed during the site induction.

Reporting of all Accidents / Incidents will be carried out in accordance with the Site Construction Phase Plan.

7. Supervisor / Administrator, Site Personnel details and Organisation chart.

Role	Name	Contact Number
Site Supervisor	Laurence Jones	07825 444 251
OSP Site Supervisor	N/A	N/A
Site Project Manager	Paul Bowes	07940 308223
Site Lead	Capt Ian Wadley	020 7405 8112
Estates Manager	Keith Rogerson	020 72184957
Establishment SHEF	Capt Ian Wadley	020 7405 8112
Establishment FM	Capt Ian Wadley	020 7405 8112
CDM - Coordinator	Dave Jackson	07803 261 282
Passive Infrastructure Designer Name:	General Dynamics	
Passive Infrastructure Design Company:	General Dynamics	
Passive Installer:	Electranet UK Limited	01425 612 441
Estimated Days Of Works	10 Team Days	
Estimated Qty Of Persons On Site	2	
Approx Start Date	TBC	



8. Handling design changes during the project

The 'Implementation Site Change Request', (ISCR) process will be adopted for any design changes associated with the project.

Design changes will be communicated by the Site Lead to the client and IDA, captured on red line drawings and follow the process laid down in the SCPP section 2.4.

Any additional hazards/risks identified by the ISCR will be addressed and documented accordingly.

9. Site Accommodation

Building 001 has been established as the storage area for Electranet UK materials and will be identified to the Senior Lead Engineer and the rest of the installation team at the start of the installation. This will be carried out after the site induction has been performed by Capt Ian Wadley.

Building 001 has also been designated as the Site Office. The social block is available for toilet and changing facilities for use by the installation team. Meals and rest breaks will be taken at the onsite Clubhouse/Canteen/Naafi areas where only clean and dry clothing of a respectable standard are accepted.

To prevent access by unauthorised persons, a secure lockable storage facility will be provided for any hazardous substances required on site. These Fire Stopping Materials will only be taken from the storage facility as and when needed for the installation. COSHH Data sheets can be found within the Risk Assessment Section.

10. Health & Safety Overview including signature:

Access
Access to site will be via The Main Entrance. All Electra-Net (UK) Ltd contractors will sign in on arrival and sign out on departure. **Deliveries must be between 0700 & 0800 and routes agreed with site lead.**

Site Security
On arrival all engineers will sign in at the Main Gate Reception. Operatives are to be aware of other possible contractors, carrying out cross site works for the MOD on this establishment. Personnel must wear their pass at all times.

Site Hours
Site hours will be 08.00 until 16.30-Monday to Thursday and 08.30 to 14.00hrs Friday. Weekend work and out of hours work are not planned at this time.

Access and Egress
Escape routes will not be blocked or restricted unless other means of escape is agreed with the Authority. Very short term interruption of access ways and escape routes is acceptable but working equipment / deliveries are to be kept to a minimum and working area is not to be left unattended.

Site Induction
A Site Induction will be carried out to all Personnel prior to work commencing on site. This will include Emergency Procedures, First Aid Facilities, Muster Points, and Emergency Contact details, Site Contact: Capt Ian Wadley to advise.

English Language
All operatives will have good written and verbal communication skills in English.

PPE
PPE will comprise of Helmets, Steel Toe Capped work boots and High Visibility Vests will be worn at all times by all members of the Electranet installation team during the course of the installation phase.

Traffic System
The rights of way, both pedestrian and vehicular, along the adjoining roads, car parks and pavements must be kept clear for use of site personnel at all times. Electra-Net UK Limited will ensure that these rights of way are not compromised.

Power Usage
All work tools will be 110v and PAT TESTED. The use of cordless drill will be used on site. The chargers will be PAT TESTED. No 240v power tolls will be used on site.

Ladder Register
A register will be available for inspection and held by the Lead Engineer.

Tool Box Talks
Toolbox talks will be held regularly to ensure that the site is kept clean and tidy at all times and to ensure that safe working practices and the safe storage of materials is maintained at all times.

Site Installation Review
The Electranet UK Site Lead Engineer will carry out a morning and afternoon inspection throughout the areas of the site that Electranet UK are working in to ensure that the installation is being carried out in a safe and controlled manner. These morning and afternoon visits will be in addition to our daily progress walks around site to identify any working areas that may have changed since the last inspection. This will identify any new risks that may affect the installation team and/or the staff members on site and allow us to manage any potential new risks in a controlled and efficient manner.

Parking
There is no designated parking available. Local NCP parking is to be used once materials have been delivered to site:

National Car Parks Ltd
Parker Mews
London, WC2B 5NT

COSHH
Material Data sheets will be provided on site to the Principal Contractor for materials specified and provided for our use, for example, epoxy resin, alcohol, and fire stopping.

Date Produced: 19th January 2009

Produced: Mark Ibbotson

Signature: Mark Ibbotson

11. Table of Site Specific Risk Assessments & Method Statements:

HAZARD	Applies	RA No's.	SSOW	Permit
Electrical Cabinet Power & Electrical Earthing & Earth Bonding	**Yes**	**11**		
Other Site Specific Risks List Below	**Applies**	**RA No's.**	**SSOW**	**Permit**
Mobile Elevated Platforms	**No**	**1**		
Confined Spaces	**No**	**2**		
Use Of Hand Tools	**Yes**	**3**		
Access Towers & Scaffolds	**Yes**	**4**		
Working in Occupied Premises	**Yes**	**6**		
Manual Handling	**Yes**	**7**		
Use Of Portable Electrical Equipment	**Yes**	**8**		
Installation Of Trunking	**Yes**	**9**		
Cable Pulling	**Yes**	**10**		
Installation of Catenary Cables (TELENCO)	**No**	**14**		
Core Drilling/Drilling	**No**	**16**		
Use Of Podium Steps & Ladders	**Yes**	**18**		
Fire Stopping	**Yes**	**19**		
Loft Spaces	**No**	**20**		

Electranet UK COSHH Risk Assessment & Data Sheets:

RA 19: FIRE STOPPING
Hazard: Handling of irritable substance:

Please refer to the following Risk Assessment and Data Sheets.

Assessment Date: 1st June 2008 **Review date: 31st May 2009**

COSHH ASSESSMENT	**Sheet No: E-Net 0011**
Company Name: Electra-Net UK Ltd	**Assessor: Adrian Harrod**
Product: fischer 1- Component Polyurethane Foam B2	**Data Sheet No: 1907/2006/EG (GB)**
Operation/Process: Filling of cavities between solid parts of buildings made from metal or mineral building materials, after drilling containment routes.	
Locations: Various Locations as Stipulated in ISP Section 2	
WEL/TWA:	
Hazardous Content: Refer to Attached COSHH Data Sheet 1907/2006/EG (GB) Sub-Section 3 (Dangerous Components).	
Persons Exposed: Operatives Only	
Frequency of Exposure: Periodically at time of making good areas after containment and cabling installation. This will be of minimal exposure time.	
Duration of Exposure: Minimal max of 10 minutes per wall penetration	
Hazards Associated with the product: Refer to Attached COSHH Data Sheet 1907/2006/EG (GB) Sub-Section 2 (Hazard Identification).	

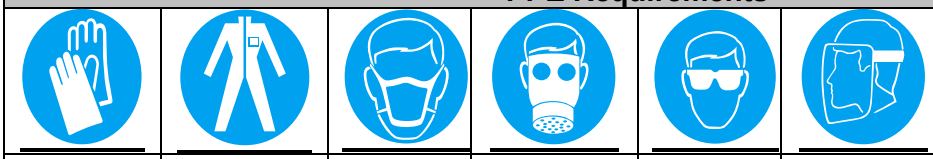
Control Measures;

1 Wear protective clothing
2 Ensure good ventilation/ exhaustion at workplace do Not use in enclosed rooms.
3 Remove any source of ignition, **NO** smoking.
4 Avoid inhalation, eye- and skin contact.
5 Keep away unprotected persons.
6 Ensure good interior ventilation, especially at floor level (fumes are heavier than air).
7 Observe official regulations on storing packaging with pressurised containers. Store in a dry, cool and good ventilated room.

Substance Properties

Flammable/ Highly Flammable	Oxidiser	Explosive	Harmful	Toxic/ Very Toxic	Irritant		Corrosive
X			X		X		

PPE Requirements



						Other	**Other**
X		X					

Revised Exposure Assessment:

1. Exposure is reduced to a minimum following full control procedures.
2

Signature: *Adrian Harrod* **Date: 1st June 2008**

Safety Data Sheet 1907/2006/EG (GB)

fischer 1-Component Polyurethane Foam B2

Prepared on: 26.09.2006 **Reviewed on:** 27.02.2008 **Next Review on:** 27.09.2009 **Version:** 3.0 **Pages:** 1 of 5

1: Identification of the Substance/Preparation and of the Company:

Product: fischer 1-Component Polyurethane Foam B2
Use: Filling of cavities between solid parts of buildings made from metal or mineral building materials. Isolation between walls and windows, doors or shutters.
Company: fischerwerke Artur Fischer GmbH & Co. KG
Address: D-72178 Waldachtal, Weinhalde 14 - 18
Phone: 0049 (0)7443 12-0
Fax: 0049 (0)7443 12-4222
Homepage: www.fischer.de
E-Mail: info-sdb@fischer.de
Emergency Phone: 0049 6132-84463 GBK Gefahrgut Büro GMBH Ingelheim

2: Hazard Identification:

Hazard designation:

Xn Harmful

F+ Extremely flammable

Information pertaining to particular dangers for man an environment:
R12 Extremely flammable
R 42/43 May cause sensitisation by inhalation and skin contact.
R 36/37/38 Irritating to eyes, respiratory system and skin.

Contains Isocyanates. See information supplied by the manufacturer.

Pressurized container. Protect from sunlight and do Not expose to temperature exceeding 50°C. Do Not pierce, burn, even after use. Do Not spray on a naked flame or any incandescent body. Keep away from sources of ignition. No smoking. Keep out of reach of children. Without adequate ventilation formation of flammable/explosives vapour – air mixture may be possible.

Classification system:
The classification is in line with current EC lists. In addition it is supplemented by data taken from technical literature and by company data.

3: Composition/Data on Components:

Chemical characterisation
Dangerous components:
CAS-No. / EINECS-No. Designation, danger sign, R-phrases Contents
13674-84-5 / 237-158-7 Tris(2-chloroisopropyl)phosphate 10 – 25 %
Xn; R22
9016-87-9 / -- diphenylmethanediisocyanate,
isomers and homologous 2,5 – 10 %
Xn, R 20 – 36/ 37/38 – 42/43
75-28-5 / 200-857-2 isobutane 2,5 – 10 %
F+, R 12
74-98-6 / 200-827-9 propane 1 – 10 %
F+, R 12
115-10-6 / 204-065-8 dimethylether 2,5 – 10 %
F+, R 12
Advice: Description of mentioned risk phrases please see chapter 16.

Safety Data Sheet 1907/2006/EG (GB)

fischer 1-Component Polyurethane Foam B2

4: First-Aid Measures:

General information:
After inhalation: Supply fresh air; consult doctor in case of symptoms.
After skin contact: Instantly wash with water and soap and rise thoroughly.
After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing: Do Not induce vomiting. Instantly call for medical help.

Information for the doctor:
Following symptoms can appear: allergic reaction

Danger: Irritant effects by pasting. Danger of sticking eyes and skin caused by cured foam. Sensitization by inhalation and skin contact possible.

5: Fire-Fighting Measures:

Suitable extinguishing agents:
CO_2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Cool down endangered containers.
For safety reasons unsuitable extinguishing agents:
Water with a full water jet.
Special hazards caused by the material, its products of combustion or flue gases:
Can be released in case of fire.Cyanic acid (HCN), carbon moNoxide (CO), hydrochloric acid (HCl), danger of bursting.
Protective equipment:
Use a respirator with a own air supply. Do Not inhale explosion gases on combustion gases.
Additional information:
Cool endangered container with water spray jet. Please do Not release fire water into the canalization
.

6: Accidental Release Measures:

Person-related safety precautions:
Wear protective clothing. Ensure adequate ventilation. Remove any source of ignition, No smoking, avoid inhalation, eye- and skin contact. Keep away unprotected persons.
Measures for environmental protection: Do Not release into the canalisation. Prevent contamination of soil and water.
Measures for cleaning/collecting:
Allow to solidify. Collect mechanically.
Further advices: see item 8 and item 13

7: Handling and Storage:

Handling

Information for safe handling:
Ensure good ventilation/ exhaustion at workplace.
Do Not use in enclosed rooms.
Ensure good interior ventilation, especially at floor level (fumes are heavier than air).
Information about protection against explosions and fires:
Pressurized container. Protect from sunlight and do Not expose to temperature exceeding 50°C. Do Not pierce, burn, even after
use. Do Not spray on a naked flame or any incandescent body. Keep away from sources of ignition. No smoking. Without adequate ventilation formation of flammable/explosives vapour – air mixture may be possible. Keep away from children.

Storage
Requirements to be met by storerooms and containers:
Observe official regulations on storing packaging with pressurised containers.
Store at a dry, cool and good ventilated room.
Information about storage in one common storage facility: Not necessary
Further information about storage conditions: Protect from heat and direct sunlight. Best storage temperature: 18 – 22 °C.
Storage class (VCI): 2B pressurized containers
Class according to regulation on inflammable liquids: Not applicable

Safety Data Sheet 1907/2006/EG (GB)

fischer 1-Component Polyurethane Foam B2

Prepared on: 26.09.2006 **Reviewed on:** 27.02.2008 **Next Review on:** 27.09.2009 **Version:** 3.0 **Pages:** 3 of 5

8: Exposure Controls and Personal Protection:

Components with critical values that require monitoring at the workplace:

CAS-Nr	Description	TLV
9016-87-9	Diiphenymethanediisocyanate in form of Breathable Aerosols Isomers and Homologous	TLV: 0,05 mg/m3, 0.005 ppm
115-10-6	Dimethyl Ether	TLV: 1900 mg/m3, 1000 ml/m3
75-28-5	Isobutane	TLV: 2400 mg/m3, 1000 ml/m3
74-98-6	Propane	TLV: 1800 mg/m3, 1000 ml/m3

Additional information:
The lists that were valid during the compilation were used as basis.
Personal protective equipment
General protective and hygienic measures:
Avoid contact with eyes and the skin.
The usual precautionary measures should be adhered to in handling the chemicals.
Breathing equipment: Not necessary if room is well-ventilated.
Protection of hands: Protective gloves (material: butyl rubber).
Eye protections: Safety glasses.
Body protection: Protective work clothing.

9: Physical and Chemical Properties:

Form: Aerosol
Colour: Light Yellow
Smell: Weak, Characteristic

	Value/Range	Unit Method
Change in condition		
Melting point/ Melting range:	Not applicable as aerosol	
Boiling point/ Boiling range:	Not applicable as aerosol	
Flash point:	Not applicable	
Ignition temperature:	> 230 °C	

Decomposition temperature:
The cured foam may decompose at temperature above 100 °C. At temperatures above 300 °C self-ignition is possible.

Self-inflammability:	Product is Not self-igniting	
Danger of explosion:		

Product is Not explosive; however, formation of explosive air/steam mixture is possible.

Critical values for explosion:	Applicable for the propellant	
Lower:	1,5 Vol. %	
Upper:	18,6 Vol. %	
Steam pressure:	at 20 °C	5,5 – 6 bar
Density:	at 20 °C	n.a.
Solubility in / Miscibility with	Water:	Not miscible

10: Stability and Reactivity:

Thermal decomposition/ conditions to be avoided
No decomposition if used as stored according to specifications.

Dangerous reactions:
By warming up over 50°C due to increasing inside pressure there is danger of bursting.

Dangerous products of composition:
Cyanic hydrogen (HCN) (at combustion), hydrochloric acid (HCl)

Safety Data Sheet 1907/2006/EG (GB)

fischer 1-Component Polyurethane Foam B2

11: Toxicological Information:

Acute toxicity:
Primary irritant effects:
On the skin: Irritant for skin when pasting. Sensitization by skin contact possible.
On the eye: Irritant effect: danger of pasting.
Inhalation: Sensitization possible Not applicable for the cured foam.

Additional toxicological Notice:
After foaming the prepolymer cures with air moisture out of the environment to neutral polyurethane.

12: Ecological Information:

Common advices:
Information about elimination (persistence and degradability)
The cured foam is Not biodegradable.
Water hazard class: None.

13: Disposal Considerations:

Product: observe your local disposal regulations
Refuse code:
Refuse code 1605: Chemicals and gases in containers
160504: Pressurized containers containing dangerous substances and gases
Fully emptied containers:
Refuse code 08 04 09: Adhesives and Sealant disposals, containing organic solvents and other dangerous substances.

Cured product pieces
Refuse code: 170203 Polymers
Refuse code: 170604 Insulating material with exception of these mentioned at item 170601 and 170603

Un-cleaned Packages:
Recommendation: Disposal must be made according to official regulations.
In Germany: recycling by PDR without additional costs. PU-Dosen GmbH & Co. Betriebs KG (PDR), Am alten Sägewerk 3, D-95349 Thurnau
Order and pickup at phone number: 0800-7836736 or fax 0800-7836737

Recommended cleaning agent: HAGO Polyurethane Cleaner

14: Transport information:

Land-transport ADR/RID und GGVS/E:
- ADR/RID GGVS/E class: 2.1
- Classifying code: 5F
- UN- number: 1950
- Description: pressurized container
- Notice: transport according chapter 3.4 ADR

Sea transport IMDG/GGVSee:
- IMDG/GGVSee-Klasse: 2
- UN- number: 1950
- EMS number: F-D; S-U
- Marine pollutant: No
- Correct technical name: aerosols, limited quantity

Air transport ICAO-ti AND IATA-DGR:
- ICAO/IATA class: 2.1
- UN/ID number: 1950
- Notice: aerosols, flammable

Safety Data Sheet 1907/2006/EG (GB)

fischer 1-Component Polyurethane Foam B2

Prepared on: 26.09.2006 **Reviewed on:** 27.02.2008 **Next Review on:** 27.09.2009 **Version:** 3.0 **Pages:** 5 of 5

15: Regulatory information:

Designation according to EC guidelines:
The product has been labeled in accordance with EG Directives / relevant national laws.

Code letter and hazard designation of product:

Hazard designation:

Xn Harmful

F+ Extremely flammable

Hazard-determining components of labeling:

Risk Phrases:
R12 Extremely flammable
R 42/43 May cause sensitization by inhalation and skin contact.
R 36/37/38 Irritating for eyes, respiratory system and skin.

Safety Phrases:
S2 Keep out of the reach of children.
S23 Do Not breathe gas/fumes/vapour/spray
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water and soap.
S37/39 Wear suitable gloves and eye protection.
S45 In case of accident or you feel unwell, seek medical advice immediately
S 51 Use only in well-ventilated areas

Special designation of certain preparation:
Pressurized container. Protect from sunlight and do Not expose to temperature exceeding 50 °C. Do Not pierce or burn, even after use. Do Not spray into a naked flame or any incandescent object. Keep away from sources of ignition – No smoking. Without adequate ventilation formation of explosives mixtures may occur. Contains Isocyanates. Observe manufacture's instructions.
National regulations:
TA-Luft: Not determined
Störfallverornung: Not determined
water hazard class: None

16: Other information:

These data are based on our present kNowledge. However, they shall Not constitute a guarantee for any specific product features an shall Not establish a legally valid contractual relationship.

Risk phrases (listed in paragraph 2 and 3):
R12 Extremely flammable; R 20 Harmful by inhalation; R 36/37/38 Irritating for eyes, respiratory system and skin; R 42/43 May cause sensitization by inhalation and skin contact.

Changes against earlier versions: completely revised

LEPTOSPIROSIS INFORMATION CARD - TO BE ISSUED TO ENGINEERS ON SITE:

Leptospirosis Information Card

- **What is Leptospirosis?**
  Two types of Leptospirosis infection can affect workers in the UK.
- **Weil's disease**
  This is a serious and sometimes fatal infection that is transmitted to humans by contact with urine from infected rats.
- **The Hardjo form of Leptospirosis**
  This is transmitted from cattle to humans.
- **What are the symptoms?**
  Both diseases start with a flu-like illness with a persistent and severe headache, which can lead to vomiting and muscle pains and ultimately to jaundice, meningitis and kidney failure. In rare cases the diseases can be fatal.
- **Who is at risk?**
  Anyone who is exposed to rats, rat or cattle urine or to foetal fluids from cattle is at risk. Farmers are now the main group at risk for both Weil's disease and cattle Leptospirosis: the cattle form is a special risk for dairy farmers.

  Other people who have contracted Leptospirosis in recent years include vets, meat inspectors, butchers, abattoir and sewer workers. Workers in contact with canal and river water are also at risk.

- **How might I catch it?**
  The bacteria can get into your body through cuts and scratches and through the lining of the mouth, throat and eyes after contact with infected urine or contaminated water, such as in sewers, ditches, cable pits & troughs, ponds and slow-flowing rivers. People working in dairy parlours are often in contact with cattle urine. Rat urine may also contaminate animal feed stuffs on farms.
- **How can I prevent it?**
  Get rid of rats. Don't touch them with unprotected hands.
  Wash cuts and grazes immediately with soap and running water and cover all cuts and broken skin with waterproof plasters before and during work.
- **Wear protective clothing.**
  Wash your hands after handling any animal or any contaminated clothing or other materials and always before eating, drinking or smoking.
- **What else should I do?**
  Report any illness to your doctor. Tell the doctor about your work and show this card. Leptospirosis is much less severe if it is treated promptly. If your doctor decides you have Leptospirosis tell your line manager as the company must report the incident.
- **To the doctor**
  The card holder's work may expose him/her to the danger of Leptospirosis (either L.icterohaemorrhagiae or L. hardjo). Early diagnosis and treatment are vital in Weil's disease as jaundice is often absent in the early stages. The illness in L. hardjo may also be greatly shortened by appropriate antibiotic treatment. (Your local Public Health Laboratory Service or hospital consultant microbiologist should be able to offer advice and serological testing.)