

SAFETY DATA SHEET

INDUSTRIAL THINNER

Version 5.02 2005,24 March  
fINDUTHN

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1. PRODUCT AND COMPANY IDENTIFICATION

1.01 Product Code fINDUTHN  
1.02 Product Name INDUSTRIAL THINNER  
1.03 Synonyms  
  
1.04 Intended Use A thinner for MANOR industrial paints  
1.05 Manufacturer/Supplier B Rourke & Co Ltd  
1.06 Address Accrington Road  
Burnley  
Lancashire  
BB11 5QD  
  
1.07 Contact Health & Safety Dept  
1.08 Phone Number 01282-422841  
1.09 Fax Number 01282-430240  
1.10 Emergency Phone Number 01282-422841

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.01 Substance Formal Name XYLENE  
2.02 Substance Chemical Family Aromatic hydrocarbon  
2.03 CAS Number 1330-20-7  
2.04 Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned occupational Exposure Limit Values.

Name	% Conc.	EC No.	Symbol	R-Phrases
(CAS 001330-20-7) XYLENE	> 50	215-535-7	Xn	R10 R20/21 R38
(CAS 000100-41-4) ETHYLBENZENE	10 - 25	202-849-4	F Xn	R11 R20

2.05 R-Phrases used

R10 FLAMMABLE.  
R11 HIGHLY FLAMMABLE.  
R20 HARMFUL BY INHALATION.  
R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.  
R38 IRRITATING TO SKIN.

3. HAZARD IDENTIFICATION

3.01 Main Hazards The product has been assigned the following indications of danger:

FLAMMABLE & HARMFUL

3.02 Health Effects - Skin HARMFUL AND IRRITATING TO THE SKIN.  
3.03 Health Effects - Ingestion HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.  
3.04 Health Effects - Inhalation HARMFUL BY INHALATION.

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4. FIRST AID MEASURES

- 4.01 General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- 4.02 First Aid - Eyes Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes holding the eyelids apart, and seek medical advice.
- 4.03 First Aid - Skin Move affected person away from source of contamination. Promptly remove any contaminated clothing and flush affected skin with water. Wash skin thoroughly with soap and water or proprietary skin cleaner. Get medical attention if irritation persists after washing.
- 4.04 First Aid - Ingestion If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
- 4.05 First Aid - Inhalation Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical help.

5. FIRE FIGHTING MEASURES

- 5.01 Extinguishing Media Alcohol resistant foam, carbon dioxide, powder, water spray/mist.
- 5.02 Unsuitable Extinguishing Media Water jet.
- 5.03 Special Hazards Fire will produce dense black smoke containing hazardous products of combustion. (See Section 10)
- 5.04 Protective Equipment Appropriate self-contained breathing apparatus may be required.
- 5.05 Combustion Products Exposure to decomposition products may be a hazard to health.
- 5.06 Recommendations Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

- 6.01 Personal precautions Avoid breathing vapours. Refer to the protective measures listed in Sections 7 and 8.
- 6.02 Environmental precautions Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the relevant environment agency.
- 6.03 Large spillages/disposal Contain and collect spillages with absorbent material which is non-combustible, e.g. sand, earth vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations. (See Section 13).
- 6.04 General information Exclude sources of ignition and ventilate the area, also exclude non-essential personnel.

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7. HANDLING & STORAGE

7.01 Handling

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational Exposure Limit Values.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when transferring from one container to the other. Operators should wear anti-static footwear and clothing. Floors should be electrically conductive.

Keep container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.

Avoid skin and eye contact. Avoid the inhalation of vapour and mist.

Smoking, eating and drinking should be prohibited in storage and use areas.

For Occupational Exposure Control measures see Section 8.

Never use pressure to empty: The container is not a pressure vessel. Always keep in containers made of the same material as the supply container.

The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

The Manual Handling Operations Regulations may apply to the handling of containers of products. To assist in calculating the weight of the pack, the pack size in litres can be multiplied by the density given in Section 9. This will give the nett weight of the product in kilograms. Packaging allowance will be needed to estimate gross weight.

7.02 Storage

Observe the label precautions. Store between 5 C and 25 C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

No smoking. Prevent unauthorised access.

Containers which are opened should be properly resealed and kept upright to prevent leakage.

The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmospheres Regulations. Small quantities (up to 50 litres) of flammable liquids in closed containers can be kept within the work room in a suitably placed cupboard or bin which is of fire-resisting structure and is designed to retain spills. Material that is not in use should be returned to the designated storage area. Further guidance is contained in the HSE guidance note, Storage of Flammable Liquids in Containers.

The principles contained in the HSE guidance note Storage of Packed Dangerous Substances, should be observed when storing this product.

Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.01 Occupational exposure standards

Substance	Occupational Exposure Limits					Note
	8 Hr. TWA		15 Min. STEL			
	ppm	mg/cu. m	ppm	mg/cu. m		
XYLENE	OES 50.00	220.00	100.00	441.00	Sk	
ETHYLBENZENE	OES 100.00	441.00	125.00	552.00	Sk	

8.02 General Information

- Notes:
- (1) TWA is the Long Term Exposure Limit based on an 8 hour Time Weighted Average period.
  - (2) STEL is the Short Term Exposure Limit of 15 minutes.
  - (3) "Sk" indicates a risk of exposure through the skin. "Sen" indicates a respiratory sensitiser "Carc" indicates a carcinogen.
  - (4) WEL indicates a Work Exposure Limit. These are taken from EH40/2005, except those marked 'SUP' which are assigned by the supplier of the substance.

Addenda: The HSE adopted a new Work Exposure Limits (WELs) system during 2005. All of the previous MELs and some OESs have been transferred to the new system.

- For sprayed products the 8 hour TWA's are:-
- RESPIRABLE PARTICULATES 5 mg/cu.m (OEL)
  - TOTAL INHALABLE PARTICULATES 10 mg/cu.m (OEL)

ENVIRONMENTAL EXPOSURE CONTROLS:

See Section 12 for detailed information.

8.03 Engineering control measures

Provide adequate ventilation. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant Exposure Limit Values, suitable respiratory equipment must be worn. (See Occupational Exposure Controls below.)

OCCUPATIONAL EXPOSURE CONTROLS:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

8.04 Respiratory protection

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn.

Air-fed respiratory protection should be worn if this product is used in a confined space.

8.05 Hand protection

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage and maintenance and replacement must be followed.

Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

- 8.06 Eye protection Eye protection designed to protect against liquid splashes should be worn.
- 8.07 Body protection Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.01 Physical State Very thin liquid
- 9.02 Colour Colourless
- 9.03 Odour Typical of xylene
- 9.04 Boiling point/range degC 136-142
- 9.05 Flash point 25 C
- 9.06 Lower Explosion Limit % 1.1
- 9.07 Solubility in water Immiscible
- 9.08 Vapour pressure 0.93 kPa @ 20 C
- 9.09 Density or relative density 0.864-0.870 @ 20 C
- 9.10 Flammability Flammable
- 9.11 Auto-flammability 480 C
- 9.12 Viscosity 0.63 mPas @ 20 C
- 9.13 Vapour density (air=1) 3.7 gm/L @ 20 C
- 9.14 General Information VOC is 870 gram/litre

10. STABILITY & REACTIVITY

- 10.01 Stability Stable under the recommended storage and handling conditions. (See Section 7).
- 10.02 Conditions to avoid Heat, sparks, flames and other ignition sources.
- 10.03 Materials to avoid Keep away from oxidising agents and strongly acidic and strongly alkaline materials to prevent the possibility of exothermic reaction.
- 10.04 Hazardous decomposition products Smoke, carbon monoxide and carbon dioxide may be produced.

11. TOXICOLOGICAL INFORMATION

- 11.01 Irritancy - skin XYLENE may be absorbed through the skin with possible systemic damage.
- 11.02 General Information There is no data on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting classification.
- Exposure to organic solvent vapours in excess may result in adverse health effects, such as irritation of the mucous membrane and the respiratory system and adverse effects on kidney, liver and central nervous system. Symptoms and signs

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11. TOXICOLOGICAL INFORMATION (continued)

include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible local damage.

Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea vomiting and diarrhoea. Other effects may be described for exposure to vapours.

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12. ECOLOGICAL INFORMATION

- 12.01 Mobility
- 12.02 Persistence/degradeability
- 12.03 Bio-accumulation
- 12.04 Ecotoxicity

Log KOW (o-xylene) is 2.77, i.e. moderate.

Substantially biodegradable in water.

Low potential for bioaccumulation.

EC50: daphnia magna, 24 hr = 1.0 to 4.7 mg/l

LC50: rainbow trout, 96 hr static = 2.6 - 8.4 mg/l

- 12.05 General Information

The product has been assessed following the conventional method in CHIP and is not classified as dangerous for the environment.

This product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See also Sections 5, 6 and 13.

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13. DISPOSAL

- 13.01 Product/Container Disposal

Do NOT allow into drains or water courses or dispose of where ground or surface waters may be affected.

Wastes, including empty containers, are controlled wastes and should be disposed of in accordance with the regulations made under the Control of Pollution Act and the Environmental Protection Act.

- 13.02 General Information

Using the information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Special Waste Regulations apply.

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14. TRANSPORT INFORMATION

- 14.01 UN Number
- 14.02 UN Proper Shipping Name
- 14.03 UN Class
- 14.04 UN Packing Group
- 14.05 IMDG Ems
- 14.06 Tremcard Number TEC(R)
- 14.07 General Information

1307

XYLENES

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III

F-E, S-E

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Transport to be in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air.

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## 14. TRANSPORT INFORMATION (continued)

TRANSPORT WITHIN THE USER'S PREMISES: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

## 15. REGULATORY INFORMATION

## 15.01 General Information

This substance bears an "EC LABEL"

The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety legislation.

The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The product is classified and labelled in accordance with the CHIP Regulations as follows:

15.02 EC Symbols	Flammable		Xn Harmful
15.03 R Phrases	R10	R20/21/38	R65
15.04 S Phrases	S02	S25	S36/37
	S51		
15.05 P Phrases	P01		

## 15.06 Substances which should appear on the label.

Name	Conc. Range %
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XYLENE	> 50
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## 15.07 R-Phrases / S-Phrases used

P01	Before use - refer to the safety data sheet.
R10	FLAMMABLE.
R20/21/38	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN, ALSO IRRITATING TO THE SKIN.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
S02	Keep out of reach of children.
S25	Avoid contact with eyes.
S36/37	Wear suitable protective clothing and gloves.
S51	Use only in well ventilated areas.

## 15.08 EINECS Number

202-422-2

## 15.09 EINECS Listing

Yes

## 16. OTHER INFORMATION

## 16.01 Uses and Restrictions

The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

## 16.02 Revisions highlighted

CHIP 3: General update.

## 16.03 General Information

The information contained in this safety data

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16. OTHER INFORMATION (continued)

sheet is provided in accordance with the requirements of the CHIP Regulations.

Further information and relevant advice can be found in:  
The Control of Substances Hazardous to Health Regulations 2002(SI 2002: 2677).  
COSHH Essentials: easy steps to control chemicals, HSG 193. HSE books. Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in this publication.  
The Dangerous Substances & Explosive Atmospheres Regulations 2002(SI 2002: 2776).  
The Manual Handling Operations Regulations 1992, (SI 1992:2793), The Stationery Office.  
Chemical Warehousing: Storage of Flammable Liquids in Containers(HSG51), HSE Books.  
Storage: Packaged Dangerous Substances HSG71, HSE.  
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992: 2839), TSO.  
A Guide to Working with Solvents (INDG 272), HSE.

16.04 Footnote

The information contained in this data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

\* \* \* \* End of Data Sheet \* \* \* \*