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PRINT DATE: 31/07/2002

SAFETY DATA SHEET

REF: T9

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

Product name: Dye Penetrant Developer

Supplier: MMP-International, Division

of ITW Ltd.

Brunel Close, Park Farm

Ind Est,

Wellingborough, Northants,

NN8 6QX

Emergency telephone number: +44 (0) 1933 670870 **Fax No:** +44 (0) 1933 670800

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
BUTANE	106-97-8	601-004- 00-0	F+; R12	5-10
HEPTANE	142-82-5	601-008- 00-2	F; R11	10-30
PROPANE	74-98-6	601-003- 00-5	F+; R12	10-30
HEXANE {MIXTURE OF ISOMERS (CONTAINING A MAXIMUM OF 5% N-HEXANE 601-037-00-0)}		601-007- 00-7	F; R11	5-10

3. HAZARDS IDENTIFICATION

Most important hazards: Extremely flammable.

Specific hazards Irritating to skin.

4. FIRST AID MEASURES

Inhalation: Move to fresh air, Consult a physician after significant exposure.

Skin contact: Remove immediately adhering matter. Wash off immediately with soap and

plenty of water, If skin irritation persists, call a physician.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Ingestion: Call a physician immediately, Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: alcohol-resistant foam, Carbon Dioxide (CO 2), dry powder, Water

spray.

Specific hazards: In case of fire and/or explosion do not breathe fumes.

Special protective equipment for firefighters: In case of fire, wear a self contained breathing

apparatus, protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not breath vapours or spray mist. **Environmental precautions:** Do not let product enter drains.

Methods for cleaning up:Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer to covered steel drums.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Keep away from heat and sources of ignition.

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Storage: Keep containers tightly closed in a cool, well-ventilated place. Keep away from

sources of ignition - No smoking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits (Ref: British COSHH -

EH40):

BUTANE 600ppm
HEPTANE 500ppm
PROPANE Asphyxiant.

HEXANE {MIXTURE OF ISOMERS (CONTAINING A MAXIMUM OF 5% N-HEXANE 601-037-00-0)}

Engineering measures to

reduce exposure

Ensure adequate ventilation, especially in confined areas..

- **Respiratory protection:** Breathing apparatus with filter.

- **Hand protection:** gloves 9 (Advice should be sought on the type of gloves) .

Eye protection: safety glasses.Skin and body protection: protective suit.

Hygiene measures:

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid - Colour: white Odour: hydrocarbon-like

aerosol

pH: g/I H2O) N/A

Boiling point/range: 71 °C Flash point: -40 °C Autoignition temperature: >250 °C

Flammability (solid, gas): LEL 0.8 (% vol in air at

25°C), UEL 9.0

Explosive properties: None
Oxidizing properties: None
Vapour pressure: 2.41 Bar

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Keep away from heat and sources of ignition. **Materials to avoid:** oxidizing agents, strong acids, strong bases.

Hazardous decomposition products: Carbon monoxide, Carbon Dioxide (CO 2), nitrogen oxides

(NOx).

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Components of the product may be absorbed into the body by inhalation,

ingestion and through the skin.

Aliphatic Hydrocarbon Solvent Blend: LD50/oral/rat = >5g/kg

Local effects: May be harmful by inhalation, ingestion, skin adsorption. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Sensitization: May cause skin irritation and/or dermatitis.

Long term toxicity: Repeated or prolonged exposure may cause skin irritation and dermatitis,

due to degreasing properties of the product.

Repeated or prolonged exposure: Danger of serious damage to health by prolonged exposure,

to the renal / Central nervous system.

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12. ECOLOGICAL INFORMATION

Mobility: Do not allow material to contaminate ground water system.

Persistence / degradability: Aquatic toxicity is unlikely due to low solubility.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Contaminated packaging: Empty containers can be landfilled after cleaning, when in

compliance with local regulations.

European waste Catalogue No: 08 04 99

14. TRANSPORT INFORMATION

Proper shipping name: Aerosol

UN-No: 1950

ADR/RID Class: 2

HI/UN No: 1950

IMO Class: 2

EmS: 2-13

Proper shipping name: Aerosol

ICAO Class: 2 UN/ID No: 1950

Proper shipping name Aerosol

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: PROPANE, BUTANE, HEXANE {MIXTURE OF ISOMERS (CONTAINING A

MAXIMUM OF 5% N-HEXANE 601-037-00-0)}

- Symbol(s):





Xi - Irritant

F+ -

Extremely flammable

R -phrase(s): R12 - Extremely flammable. R38 - Irritating to skin.

S -phrase(s): S2 - Keep out of reach of children.. S 9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.. S23 - Do not breathe. S29 - Do not empty into drains. S33 - Take precautionary measures against static

discharges

16. OTHER INFORMATION

Recommended use:

Recommended restrictions:

When used in a mixture, read the labels and safety data sheets of all components.

Revision date: 09/07/2002

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication