



SAFETY DATA SHEET PACK C

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME PACK C
SUPPLIER Instarmac Group plc
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BISPHENOL F-EPOXY RESIN		9003-36-5	1-10%	Xi;R36/38. N;R51/53. R43.
EPOXY RESIN (Number average MW <= 700)	500-033-5	25068-38-6	1-10%	R43 Xi;R36/38 N;R51/53
GLYCIDYLETHER OF C12-C14 ALCOHOLS	271-846-8	68609-97-2	1-10%	Xi;R36/38. N;R51/53. R43.
SILICA FLOUR			10-30%	T;R48. Xn;R20.
SILICA SAND	238-878-4	14808-60-7	60-100%	-

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

3 HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R36/38. R43. R52/53.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Risk of serious damage to eyes.

INHALATION

If irritation occurs, move to fresh air. If nose or airways become inflamed seek medical advice

INGESTION

Do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink

SKIN CONTACT

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

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Initiate and maintain gentle and continuous irrigation until the patient receives medical care.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water. Foam.

SPECIAL FIRE FIGHTING PROCEDURES

No specific fire fighting procedure given.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

PACK C

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5°C and 25°C. Avoid frost.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
SILICA FLOUR	OES		5 mg/m3		
SILICA SAND	WEL		0.3 mg/m3		

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Provide sufficient ventilation for operations causing dust formation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided. Dust mask/respirator.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear dust resistant safety goggles where there is danger of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Powder, dust

RELATIVE DENSITY 1.6-2.0 @ 20°C

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

MATERIALS TO AVOID

Strong acids. Strong alkalis.

PACK C

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Prolonged contact with wet cement/mixture may cause burns.

EYE CONTACT

Risk of serious damage to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

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

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

LABELLING



Irritant

CONTAINS

BISPHENOL F-EPOXY RESIN
EPOXY RESIN (Number average MW <= 700)
GLYCIDYLETHER OF C12-C14 ALCOHOLS

RISK PHRASES

R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S56	Dispose of this material and its container to hazardous or special waste collection point.
S64	If swallowed, rinse mouth with water (only if the person is conscious).
P5	Contains epoxy constituents. See information supplied by the manufacturer.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

PACK C

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

NATIONAL REGULATIONS

Workplace Exposure Limits 2005 (EH40) The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

16 OTHER INFORMATION

GENERAL INFORMATION

If further information on training is required contact Instarmac Group plc

REVISION DATE 18/07/2007

REV. NO./REPL. SDS GENERATED 3

RISK PHRASES IN FULL

NC	Not classified.
R20	Harmful by inhalation.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R48	Danger of serious damage to health by prolonged exposure.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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SAFETY DATA SHEET PACK D

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME PACK D

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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-PIPERAZIN-1-YLETHYLAMINE	205-411-0	140-31-8	1-10%	C;R34 Xn;R21/22 R43 R52/53
NONYLPHENOL	246-672-0	25154-52-3	1-10%	Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53
SILICA FLOUR			10-30%	T;R48. Xn;R20.

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

3 HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R36/38. R43. N;R51/53.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Risk of serious damage to eyes.

INHALATION

If irritation occurs, move to fresh air. If nose or airways become inflamed seek medical advice

INGESTION

Do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink

SKIN CONTACT

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

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Initiate and maintain gentle and continuous irrigation until the patient receives medical care.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water. Foam.

SPECIAL FIRE FIGHTING PROCEDURES

No specific fire fighting procedure given.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

6 ACCIDENTAL RELEASE MEASURES

PACK D

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5°C and 25°C. Avoid frost.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
SILICA FLOUR	OES		5 mg/m3		

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

ENGINEERING MEASURES

Provide sufficient ventilation for operations causing dust formation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided. Dust mask/respirator.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear dust resistant safety goggles where there is danger of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Powder, dust

RELATIVE DENSITY 1.6-2.0 @ 20°C

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

MATERIALS TO AVOID

Strong acids. Strong alkalies.

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

PACK D

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Prolonged contact with wet cement/mixture may cause burns.

EYE CONTACT

Risk of serious damage to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

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

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

LABELLING



Irritant



Dangerous for the environment

CONTAINS

2-PIPERAZIN-1-YLETHYLAMINE

RISK PHRASES

R43 May cause sensitisation by skin contact.
R36/38 Irritating to eyes and skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
S24/25 Avoid contact with skin and eyes.
S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
S64 If swallowed, rinse mouth with water (only if the person is conscious).

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

PACK D

NATIONAL REGULATIONS

Workplace Exposure Limits 2005 (EH40) The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

16 OTHER INFORMATION

GENERAL INFORMATION

If further information on training is required contact Instarmac Group plc

REVISION DATE 30/11/2006

REV. NO./REPL. SDS GENERATED 1

RISK PHRASES IN FULL

R20	Harmful by inhalation.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R48	Danger of serious damage to health by prolonged exposure.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

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SAFETY DATA SHEET PRIMER A

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME PRIMER A
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BISPHENOL F-EPOXY RESIN		9003-36-5	10-30%	Xi;R36/38. N;R51/53. R43.
EPOXY RESIN (Number average MW <= 700)	500-033-5	25068-38-6	60-100%	R43 Xi;R36/38 N;R51/53
GLYCIDYLETHER OF C12-C14 ALCOHOLS	271-846-8	68609-97-2	10-30%	Xi;R36/38. N;R51/53. R43.

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

3 HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R36/38. R43. N;R51/53.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

Drink plenty of water. If possible give charcoal slurry Place unconscious person on the side in the recovery position and ensure breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. DO NOT INDUCE VOMITING!

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray. Carbon dioxide (CO2). Foam or Dry Powder

SPECIAL FIRE FIGHTING PROCEDURES

Do not use High volume water jet.

SPECIFIC HAZARDS

Burning produces obnoxious and toxic fumes, Carbon oxides.

PROTECTIVE MEASURES IN FIRE

Wear self-contained breathing apparatus and protective suit.

6 ACCIDENTAL RELEASE MEASURES

PRIMER A

PERSONAL PRECAUTIONS

Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Do not breathe dust.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into drains. Do not contaminate surface water Avoid subsoil penetration

SPILL CLEAN UP METHODS

Absorb with sand or other inert absorbent. Dispose of waste and residues in accordance with local authority requirements.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation Handle and open container with care

STORAGE PRECAUTIONS

Keep away from food, drink and animal feeding stuffs. Keep containers tightly closed. Store at temperatures between 2° and 40°C

STORAGE CLASS

Storage class 10, Environmentally hazardous liquids

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes or clothing.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Rubber or plastic.

EYE PROTECTION

Wear tight-fitting goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SKIN PROTECTION

Protection suit must be worn. Safety Shoes

ENVIRONMENTAL EXPOSURE CONTROLS

For waste disposal, see section 13

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Liquid

COLOUR

Colourless

ODOUR

Slight odour

SOLUBILITY

Practically insoluble in water

BOILING POINT (°C)

>100°C @ 1,013 hPa

VISCOSITY

650-750 mPas 25°C

FLASH POINT (°C)

130°C PM Closed cup.

PRIMER A

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Take precautionary measures against static discharges.

MATERIALS TO AVOID

Strong acids. Strong oxidising substances. Strong bases

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Oxides Burning produces obnoxious and toxic fumes

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 >2,000 mg/kg (oral-rbt)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Avoid subsoil penetration Prevent entry into drains. Do not contaminate surface water

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Must be incinerated, when in compliance with local regulations.

WASTE CLASS

Waste Key Number 070208

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. contains BISPHENOL A EPOXY RESIN		
UN NO. ROAD	3082	ADR CLASS NO.	9
ADR PACK GROUP	III	HAZARD No. (ADR)	90
ADR LABEL NO.	9	UN NO. SEA	3082
IMDG CLASS	9	IMDG PAGE NO.	III
EMS	F-A S-F	UN NO. AIR	3082
AIR CLASS	9	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Irritant



Dangerous for the environment

CONTAINS

BISPHENOL F-EPOXY RESIN
EPOXY RESIN (Number average MW <= 700)
GLYCIDYLETHER OF C12-C14 ALCOHOLS

RISK PHRASES

R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

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.

PRIMER A

S37/39	Wear suitable gloves and eye/face protection.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
P5	Contains epoxy constituents. See information supplied by the manufacturer.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health (Amendment) Regulations 2004 Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

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NATIONAL REGULATIONS

Workplace Exposure Limits 2005 (EH40) The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

16 OTHER INFORMATION

GENERAL INFORMATION

If further information on training is required contact Instarmac Group plc

REVISION DATE 07/12/2006

REV. NO./REPL. SDS GENERATED 4

RISK PHRASES IN FULL

R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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SAFETY DATA SHEET PRIMER B

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-PIPERAZIN-1-YLETHYLAMINE	205-411-0	140-31-8	30-60%	C;R34 Xn;R21/22 R43 R52/53
NONYLPHENOL	246-672-0	25154-52-3	30-60%	Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53

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

3 HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R21/22. Rep 3;R62, R63. C;R34. R43. N;R50/53.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Get medical attention. Perform artificial respiration if breathing has stopped. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately For breathing difficulties oxygen may be necessary.

NOTES TO THE PHYSICIAN

Applicaton of corticosteroid cream has been effective in treating skin irritation

INHALATION

Move the exposed person to fresh air at once.

INGESTION

Do not induce vomiting. Never give liquid to an unconscious person. Prevent aspiration of vomit. Turn victims head to the side.

SKIN CONTACT

Immediately remove contaminated clothing and shoes Immediately remove extraneous chemical, if possible to do so without delay Initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical attention is not promptly available continue to irrigate for one hour Cover wound with sterile dressing Immediately remove contaminated clothing.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. If medical attention is not promptly available continue to irrigate for one hour

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Foam, carbon dioxide or dry powder. Extinguish with dry sand.

SPECIFIC HAZARDS

May generate ammonia gas May generate toxic nitrogen oxide gases Use of water may result in the formation of very toxic aqueous solutions Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes

PRIMER B

PROTECTIVE MEASURES IN FIRE

Avoid contact with skin Full face shield should be worn Use personal protective equipment Wear self contained breathing apparatus for fire fighting if necessary

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use self-contained breathing apparatus and chemically protective clothing. Use protective gloves, goggles and suitable protective clothing. Warn everybody of potential hazards and evacuate if necessary.

ENVIRONMENTAL PRECAUTIONS

Construct a dike to prevent spreading

SPILL CLEAN UP METHODS

Approach suspected leak areas with caution For waste disposal, see section 13.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product. Do not eat, drink or smoke when using the product.

STORAGE PRECAUTIONS

Do not store in reactive metal container Store in tightly closed original container in a dry and cool place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Neoprene gloves are recommended. Butyl rubber gloves are recommended. Nitrile gloves are recommended. Impervious gloves The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Full face shield with goggles underneath

HYGIENE MEASURES

Promptly remove any clothing that becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

SKIN PROTECTION

Protection suit must be worn. Impervious Clothing

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid	RELATIVE DENSITY	.97 (water = 1)
COLOUR	Colourless to pale yellow	pH-VALUE, CONC. SOLUTION	Alkaline
ODOUR	Fishy.	SOLUBILITY VALUE (g/100g H2O@20°C)	<0.1 g/l
BOILING POINT (°C)	>200 °C		
VAPOUR PRESSURE	<1.00 mm HG 21°C		
FLASH POINT (°C)	100°C		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

PRIMER B

MATERIALS TO AVOID

Sodium hypochlorite Acids - organic. Mineral Acids Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion Reactive Metal (eg sodium, calcium, zinc etc) Materials reactive with hydroxyl compounds Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Nitric acid (HNO3). Ammonia Nitrous gases (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid Carbon monoxide (CO). Carbon dioxide (CO2). Aldehydes.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 1, 620 mg/kg (oral rat)

TOXIC DOSE 2 - LD 50 >1, 000 mg/kg (oral-rbt)

SKIN CONTACT

May cause sensitisation by skin contact.

OTHER HEALTH EFFECTS

The product or a component may be mutagenic, the data is inconclusive

12 ECOLOGICAL INFORMATION

ECOTOXICITY

No data on possible environmental effects have been found.

LC 50, 96 Hrs, FISH mg/l (96h) : 0.128 mg/l

EC 50, 48 Hrs, DAPHNIA, mg/l (48h) : 0.00848 mg/l & (48h) : 0.19 mg/l

BIOACCUMULATION

Moderate bioaccumulation potential

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethyl) piperazine, 1-(2-, (AEP), Nonylphenol)		
UN NO. ROAD	UN2735	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	UN2735
IMDG CLASS	8	IMDG PACK GR.	III
UN NO. AIR	UN2735	AIR CLASS	8
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING



Corrosive



Harmful



Dangerous for the environment

PRIMER B

CONTAINS 2-PIPERAZIN-1-YLETHYLAMINE
NONYLPHENOL

RISK PHRASES

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

SAFETY PHRASES

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health (Amendment) Regulations 2004 Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

NATIONAL REGULATIONS

Workplace Exposure Limits 2005 (EH40) The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

16 OTHER INFORMATION

GENERAL INFORMATION

If further information on training is required contact Instarmac Group plc

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RISK PHRASES IN FULL

R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

DISCLAIMER

The purpose of the above information is to describe the products only in terms of health and safety requirements. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. It is the users obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date specified.

All goods are supplied in accordance with Instarmac Group plc's general conditions of sale, copies of which may be obtained by telephoning sales on 01827 872244



SAFETY DATA SHEET R9 SOLVENT

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME R9 SOLVENT
SUPPLIER Instarmac Group plc
Kingsbury Link, Trinity Road
TAMWORTH, Staffordshire
B78 2EX. United Kingdom
Tel: +44 (0) 1827 872244
Fax: +44 (0) 1827 874466
email@instarmac.co.uk
www.instarmac.co.uk
EMERGENCY TELEPHONE +44 (0)7971 217 347

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1,2,4-TRIMETHYLBENZENE	202-436-9	95-63-6	1-10%	R10 Xn;R20 Xi;R36/37/38 N;R51/53
CUMENE	202-704-5	98-82-8	< 1 %	R10 Xn;R65 Xi;R37 N;R51/53
ETHYLBENZENE	202-849-4	100-41-4	< 1 %	F;R11 Xn;R20
MESITYLENE	203-604-4	108-67-8	1-10%	R10 Xi;R37 N;R51/53
PROPYLBENZENE	203-132-9	103-65-1	< 1 %	R10 Xn;R65 Xi;R37 N;R51/53
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.; STRAIGHT RUN KEROSENE	265-191-7	64742-88-7	60-100%	Xn;R65
XYLENE	215-535-7	1330-20-7	< 1 %	R10 Xn;R20/21 Xi;R38

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

EC (EINECS) NO. 265-191-7
CAS-NO. 64742-88-7

3 HAZARDS IDENTIFICATION

Harmful: may cause lung damage if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Flammable. Repeated exposure may cause skin dryness or cracking.

CLASSIFICATION Xn;R65. N;R51/53. R10, R66.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air.

SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

R9 SOLVENT

EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer. Disposal should be carried out in accordance with the Hazardous Waste Regulations. If any liquid enters the drainage system or watercourse inform the local authorities, Fire Brigade and Environment Agency.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
XYLENE	WEL	50 ppm(Sk)	220 mg/m ³ (Sk)	100 ppm(Sk)	441 mg/m ³ (Sk)
ETHYLBENZENE	WEL	100 ppm(Sk)	441 mg/m ³ (Sk)	125 ppm(Sk)	552 mg/m ³ (Sk)
CUMENE	WEL	25 ppm(Sk)	125 mg/m ³ (Sk)	50 ppm(Sk)	250 mg/m ³ (Sk)
1,2,4-TRIMETHYLBENZENE		25 ppm	125 mg/m ³		

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

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

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Hydrocarbon		
MOL. WEIGHT	134	BOILING POINT (°C)	152 - 198 760 mm Hg
MELTING POINT (°C)	<-20	RELATIVE DENSITY	0.778 @ 15°C
BULK DENSITY	778 kg/m ³	VAPOUR DENSITY (air=1)	4.6
VAPOUR PRESSURE	4.4 kPa 20°C	VISCOSITY	1.24 cSt @ 20°C

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FLASH POINT (°C)	38 CC (Closed cup).	AUTO IGNITION TEMPERATURE (°C)	230
FLAMMABILITY LIMIT - LOWER(%)	0.9	FLAMMABILITY LIMIT - UPPER(%)	8.0

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

INHALATION

Prolonged inhalation of high concentrations may damage respiratory system.

INGESTION

Harmful: may cause lung damage if swallowed. May cause stomach pain or vomiting.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

May cause severe irritation to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

WASTE CLASS

This material and container must be disposed of as HAZARDOUS WASTE

14 TRANSPORT INFORMATION



UK ROAD CLASS	3	UK ROAD PACK GR.	III
PROPER SHIPPING NAME	TURPENTINE SUBSTITUTE	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1300	HAZARD NO. (ADR)	30 Flammable liquid (flash-point between 23°C and 61°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 61°C, heated to a temperature equal to or above its flash-point, or self heating liquid.
ADR CLASS NO.	3	ADR LABEL NO.	3
ADR PACK GROUP	III	CEFIC TEC(R) NO.	30GF1-III
HAZCHEM CODE	3Y	RID PACK GROUP	III
RID CLASS NO.	3		

R9 SOLVENT

UN NO. SEA	1300	IMDG CLASS	3
IMDG PAGE NO.	3	IMDG PACK GR.	III
EMS	F-E, S-E	MFAG	See Guide
MARINE POLLUTANT		AIR CLASS	3



AIR PACK GR. III

15 REGULATORY INFORMATION

LABELLING



Harmful



Dangerous for the environment

CONTAINS

SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.; STRAIGHT RUN KEROSENE

RISK PHRASES

R65	Harmful: may cause lung damage if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R10	Flammable.
R66	Repeated exposure may cause skin dryness or cracking.

SAFETY PHRASES

S51	Use only in well-ventilated areas.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
S37	Wear suitable gloves.
S24	Avoid contact with skin.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health (Amendment) Regulations 2004 Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

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NATIONAL REGULATIONS

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16 OTHER INFORMATION

GENERAL INFORMATION

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R9 SOLVENT

RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

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