

SAFETY DATA SHEET

E33 EPOXY GROUT BASE COMPONENT

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

PRODUCT NAME E33 EPOXY GROUT BASE COMPONENT

CAS-No. 25668-38-6

SUPPLIER PAREX Ltd
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PRODUCT NO. TG12, TG13, TG18 (SDS 15)

2 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 (1999/45) Xi;R36/38. R43. N;R51/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
OXYRONE, MONO(C12-C14 ALKOXYMETHYL) DERIVATIVES			30-60%	Xi;R36/38. N;R51/53. R43.
REACTION PRODUCT BIS A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOL WT <=700)			30-60%	Xi;R36/38. N;R51/53. R43.
REACTION PRODUCT BIS F - (EPICHLORHYDRIN); EPOXY RESIN (NUMBER AVERAGE MOL WT <=700)			10-30%	Xi;R36/38. N;R51/53. R43.

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

CAS-No. 25668-38-6

4 FIRST-AID MEASURES

INHALATION

General first aid, rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

DO NOT induce vomiting. Get medical attention immediately. Immediately rinse mouth and drink plenty of water (200-300 ml).

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

E33 EPOXY GROUT BASE COMPONENT

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

For waste disposal, see section 13. Dam and absorb spillage with sand, sawdust or other absorbent.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Ensure there is sufficient ventilation in work area. Observe good chemical hygiene practices.

USAGE DESCRIPTION

Do not use outside manufacturers specification.

STORAGE PRECAUTIONS

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

STORAGE CLASS

Unspecified storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendations.

HAND PROTECTION

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

Wear approved safety goggles.

HYGIENE MEASURES

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

SKIN PROTECTION

Avoid skin contact

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid		
COLOUR	Light (or pale) Yellow		
ODOUR	Characteristic		
SOLUBILITY	Insoluble in water Soluble in: Organic solvents		
BOILING POINT (°C)	>200@760mg Hg	MELTING POINT (°C)	-5
RELATIVE DENSITY	1.13g/ml	VISCOSITY	900-1050 mPas 25
FLASH POINT (°C)	>140°C Not noted.		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

E33 EPOXY GROUT BASE COMPONENT

CONDITIONS TO AVOID

Avoid frost.

HAZARDOUS POLYMERISATION

May polymerise.

POLYMERISATION DESCRIPTION

Will polymerise with amines

MATERIALS TO AVOID

Amines

HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

11 TOXICOLOGICAL INFORMATION

INHALATION

May cause irritation to the respiratory system.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment. Harmful to Fish

EC 50, 48 Hrs, DAPHNIA, mg/l 2.8

DEGRADABILITY

The product is not readily biodegradable.

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



PROPER SHIPPING NAME	Environmentally Hazardous Substance, Liquid, NOS (Epoxy Resin)		
UN NO. ROAD	3082	ADR CLASS NO.	9
ADR PACK GROUP	III	ADR LABEL NO.	9
RID CLASS NO.	9	RID PACK GROUP	III
UN NO. SEA	3082	IMDG CLASS	9
IMDG PACK GR.	III	MARINE POLLUTANT	No.
UN NO. AIR	3082	AIR CLASS	9
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING

E33 EPOXY GROUT BASE COMPONENT



Irritant



Dangerous for the environment

CONTAINS

OXYRONE, MONO(C12-C14 ALKOXYMETHYL) DERIVATIVES
 REACTION PRODUCT BIS A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOL WT <=700)
 REACTION PRODUCT BIS F -(EPICHLORHYDRIN); EPOXY RESIN (NUMBER AVERAGE MOL WT <=700)

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

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.
 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.

UK REGULATORY REFERENCES

Petroleum (Consolidation) Act, as amended 1984 SI 1244. Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

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. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

16 OTHER INFORMATION

REVISION DATE 28/01/2011

REV. NO./REPL. SDS GENERATED 3

SDS NO. 15

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.

DISCLAIMER

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SAFETY DATA SHEET

E33 EPOXY GROUT FILLER COMPONENT

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

PRODUCT NAME E33 EPOXY GROUT FILLER COMPONENT

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PRODUCT NO. TG12, TG13 (SDS17)

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
SILICA SAND	238-878-4	14808-60-7	60-100%	-

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

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once.

INGESTION

Rinse mouth thoroughly. DO NOT INDUCE VOMITING! Get medical attention if any discomfort continues.

SKIN CONTACT

Wash the skin immediately with soap and water.

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. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation.

STORAGE PRECAUTIONS

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

E33 EPOXY GROUT FILLER COMPONENT

Name	Std	TWA - 8 hrs	STEL - 15 min	Notes
SILICA SAND	WEL		0,1 mg/m3	

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

RESPIRATORY EQUIPMENT

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m3.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear approved safety goggles.

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 contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Powder, dust

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

INHALATION

Dust in high concentrations may irritate the respiratory system.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Powder may irritate skin.

EYE CONTACT

Particles in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION

ROAD TRANSPORT NOTES Not Classified

RAIL TRANSPORT NOTES Not classified.

SEA TRANSPORT NOTES Not classified.

AIR TRANSPORT NOTES Not classified.

E33 EPOXY GROUT FILLER COMPONENT**15 REGULATORY INFORMATION**

RISK PHRASES

NC Not classified.

SAFETY PHRASES

NC Not classified.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988.

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

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

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

16 OTHER INFORMATION

REVISION DATE 31/01/2011

REV. NO./REPL. SDS GENERATED 6

SDS NO. 17

RISK PHRASES IN FULL

NC Not classified.

DISCLAIMER

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SAFETY DATA SHEET

E33 EPOXY GROUT HARDENER COMPONENT

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

PRODUCT NAME E33 EPOXY GROUT HARDENER COMPONENT

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PRODUCT NO. TG12, TG13, TG 18 (SDS16)

2 HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Possible risk of impaired fertility.

CLASSIFICATION (1999/45) Xn;R20/21/22. Repr. Cat. 3;R62. C;R34. R43.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
BENZYL ALCOHOL		100-51-6	30-60%	Xn;R20/22.
DIETHYLENETRIAMINE	203-865-4	111-40-0	30-60%	C;R34 Xn;R21/22 R43
P'-p' ISOPROPYLIDENEDIPHENOL		80-05-7	10-30%	Repr. Cat. 3;R62. Xi;R37,R41. R43,R52.

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

4 FIRST-AID MEASURES

INHALATION

Move into fresh air and keep at rest.

INGESTION

Get medical attention. Immediately rinse mouth and provide fresh air.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Beware, risk of formation of toxic and corrosive gases.

UNUSUAL FIRE & EXPLOSION HAZARDS

Vapours may ignite.

SPECIFIC HAZARDS

Oxides of Carbon, Benzoic Acid, Benzene

PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES

E33 EPOXY GROUT HARDENER COMPONENT

PERSONAL PRECAUTIONS

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

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Collect with absorbent, non-combustible material into suitable containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations.

USAGE DESCRIPTION

Do not use outside manufacturers specification.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIETHYLENETRIAMINE	WEL	1 ppm(Sk)	4.3 mg/m3(Sk)			

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION

wear suitable safety glasses to EN166

SKIN PROTECTION

Avoid skin contact

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Light viscous liquid		
COLOUR	Light (or pale) Amber		
ODOUR	Amine.		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	>200@760mmHg	RELATIVE DENSITY	1.01(g/ml) 23
VAPOUR PRESSURE	0.3 Pa 20	VOLATILE BY VOL. (%)	NIL
VISCOSITY	25 mPas 23	FLASH POINT (°C)	96 °C
AUTO IGNITION	395	FLAMMABILITY LIMIT - LOWER(%)	1.0
TEMPERATURE (°C)			
FLAMMABILITY LIMIT - UPPER(%)	13.0		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Minimise contact with air to avoid degradation.

POLYMERISATION DESCRIPTION

Will polymerise with epoxy resins

E33 EPOXY GROUT HARDENER COMPONENT

HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

11 TOXICOLOGICAL INFORMATION

INHALATION

Upper respiratory irritation.

INGESTION

Irritating. May cause nausea, stomach pain and vomiting.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritating to eyes. Irritation of eyes and mucous membranes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Harmful to Fish The product may have adverse effects on organisms in soil and water.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	CORROSIVE LIQUID N.O.S		
PROPER SHIPPING NAME	(2, 2'-iminodiethylamine, benzyl alcohol, bisphenol A)		
UN NO. ROAD	1760	ADR CLASS NO.	8
ADR PACK GROUP	II	RID CLASS NO.	8
RID PACK GROUP	II	UN NO. SEA	1760
IMDG CLASS	8	IMDG PACK GR.	II
UN NO. AIR	1760	AIR CLASS	8
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Corrosive



Harmful

CONTAINS

BENZYL ALCOHOL
 DIETHYLENETRIAMINE
 P'-p' ISOPROPYLIDENEDIPHENOL

RISK PHRASES

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.

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.

E33 EPOXY GROUT HARDENER COMPONENT

S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste.
S28	After contact with skin, wash immediately with plenty of water.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

16 OTHER INFORMATION

REVISION DATE 31/01/2011

REV. NO./REPL. SDS GENERATED 5

SDS NO. 16

RISK PHRASES IN FULL

R34	Causes burns.
R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R52	Harmful to aquatic organisms.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R41	Risk of serious damage to eyes.

DISCLAIMER

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