

SAFETY DATA SHEET

TECGRIP V,H VL,HL BASE COMPONENT

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

PRODUCT NAME TECGRIP V, H VL, HL BASE COMPONENT

CAS-No. 100-42-5

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PRODUCT NO. TGR 01, 02, 03, 04, 05, 12, 13

2 HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to eyes and skin. Flammable.
 CLASSIFICATION (1999/45) Xn;R20. Xi;R36/38. R10.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
UNSATURATED POLYESTER RESIN IN STYRENE		100-42-5	60-100%	Xn;R20. Xi;R36/38. R10.

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

GROSS FORMULA Styrene 40 to 45%

CAS-No. 100-42-5

COMPOSITION COMMENTS

The product contains organic solvents.

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Keep the affected person warm and at rest. Get prompt medical attention. DO NOT INDUCE VOMITING!

INGESTION

Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately.

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 or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. If possible, fight fire from protected position. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

FLAMMABLE.

SPECIFIC HAZARDS

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

TECGRIP V,H VL,HL BASE COMPONENT

PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials.

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

Absorb spillage with non-combustible, absorbent material. Spillage may be stored as chemical waste in approved area.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes.

USAGE DESCRIPTION

Do not use outside manufacturers specification.

STORAGE PRECAUTIONS

Do not store near heat sources or expose to high temperatures. Store in closed original container at temperatures between 0°C and 30°C.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
TECGRIP V,H VL,HL BASE COMPONENT	WEL	100 ppm		250 ppm		

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

Provide good ventilation and local exhaust in working area Due to the hazardous nature of ingredients, exposure should be minimal.

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. Use respiratory equipment with gas filter, type AX.

HAND PROTECTION

Neoprene gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

Change work clothing daily before leaving work place. Eating, smoking and water fountains prohibited in immediate work area.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid		
COLOUR	Amber or Green		
ODOUR	Aromatic.		
SOLUBILITY	Insoluble in water Soluble in: Organic solvents		
BOILING POINT (°C)	>=145@760mm Hg	RELATIVE DENSITY	1.05 - 1.2 20
VISCOSITY	13 - 16 Pas 25	FLASH POINT (°C)	31 Not noted.

TECGRIP V,H VL,HL BASE COMPONENT

AUTO IGNITION 490
 TEMPERATURE (°C)
 FLAMMABILITY LIMIT - UPPER(%) 6.1

FLAMMABILITY LIMIT - LOWER(%) 1.1

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use. Avoid: Contact with peroxides.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERISATION

May polymerise.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritating 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.

MOBILITY

Mobile.

BIOACCUMULATION

Biodegradable

DEGRADABILITY

The product is potentially degradable.

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 is classified as hazardous waste.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Incinerate in suitable combustion chamber.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME RESIN SOLUTION

UN NO. ROAD 1866

ADR CLASS NO. 3

ADR PACK GROUP III

TECGRIP V,H VL,HL BASE COMPONENT

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 LABEL NO.	3
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1866	IMDG CLASS	3
IMDG PACK GR.	III	MARINE POLLUTANT	No.
UN NO. AIR	1866	AIR CLASS	3
AIR PACK GR.	III		

15 REGULATORY INFORMATION

LABELLING



Harmful

CONTAINS

UNSATURATED POLYESTER RESIN IN STYRENE

RISK PHRASES

- R20 Harmful by inhalation.
- R36/38 Irritating to eyes and skin.
- R10 Flammable.

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. Workplace Exposure Limits 2005 (EH40) Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

GENERAL INFORMATION

Risk Phrases: R10 Flammable, R20 Harmful by inhalation R36/38 Irritating to eyes, skin

REVISION DATE 31/01/2011

REV. NO./REPL. SDS GENERATED 9

SDS NO. 5

RISK PHRASES IN FULL

- R10 Flammable.
- R20 Harmful by inhalation.
- R36/38 Irritating to eyes and skin.

TECGRIP V,H VL,HL BASE COMPONENT

DISCLAIMER

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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET

TECGRIP V,H, VL,HL HARDENER COMPONENT

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

PRODUCT NAME	TECGRIP V, H, VL, HL HARDENER COMPONENT
CAS-No.	94-36-0
EU INDEX NO.	617-008-00-0
EC No.	202-327-6
SUPPLIER	PAREX Ltd Holly Lane Industrial Estate Atherstone Warwickshire CV9 2QZ Tel: +44 (0)1827 711755 (Mon-Fri 8:30-16:30) Fax: +44 (0)1827 711330 sds@parex.co.uk
PRODUCT NO.	TGR(01)(05)(12)(02)(03)(13)

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)
DIBENZOYL PEROXIDE		94-36-0	< 1%	Xi;R36. E;R2. R43.

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

EU INDEX NO.	617-008-00-0
EC No.	202-327-6
CAS-No.	94-36-0

4 FIRST-AID MEASURES

INHALATION

Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

INGESTION

Drink plenty of water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.

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 alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

OXIDISING!

SPECIFIC HAZARDS

In case of fire, toxic gases may be formed.

TECGRIP V,H, VL,HL HARDENER COMPONENT

PROTECTIVE MEASURES IN FIRE

Use air-supplied respirator, gloves and protective goggles.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Risk of contact: Wear protective gloves and goggles/face shield.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS

Collect spillage with shovel, broom or the like and reuse, if possible.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations.

USAGE DESCRIPTION

Do not use outside manufacturers specification.

STORAGE CLASS

Store in cool well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
TECGRIP V,H, VL,HL HARDENER COMPONENT	WEL		5 mg/m3			

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

Provide good ventilation and local exhaust in working area

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

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

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet.

SKIN PROTECTION

Avoid skin contact

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Grains, Powder
COLOUR	Grey
ODOUR	Almost odourless
RELATIVE DENSITY	1.5g/ml

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid contact with strong reducing agents. Avoid heat.

TECGRIP V,H, VL,HL HARDENER COMPONENT**MATERIALS TO AVOID**

Strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTSBenzoic acid, Benzene Carbon dioxide (CO₂). Carbon monoxide (CO).**11 TOXICOLOGICAL INFORMATION****INHALATION**

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.

INGESTION

No harmful effects expected in amounts likely to be ingested by accident.

SKIN CONTACT

Slightly irritating.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION**MOBILITY**

Not relevant, due to the form of the product.

BIOACCUMULATION

Will not bio-accumulate.

DEGRADABILITY

The product is biodegradable.

ACUTE FISH TOXICITY

Negligible ecotoxicity

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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**RISK PHRASES**

NC Not classified.

SAFETY PHRASES

P14 Contains DIBENZOYL PEROXIDE. May produce an allergic reaction.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

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.

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16 OTHER INFORMATION

REVISION DATE

31/01/2011

TECGRIP V,H, VL,HL HARDENER COMPONENT

REV. NO./REPL. SDS GENERATED 9

SDS NO. 4

RISK PHRASES IN FULL

R2 Risk of explosion by shock, friction, fire or other sources of ignition.
R36 Irritating to eyes.
R43 May cause sensitisation by skin contact.

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