

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Patch Pro

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Fiberglass Repair Patch

1.3

Company : Group 14 Company, LLC
4450 Donovan Way
North Las Vegas, NV
89081

Telephone : (702) 533-9900

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Reproductive toxicity (Category 2)

Specific organ target toxicity – Repeated exposure (Category 1)

Contains 2-(2h-Benzotriazol-2-yl)-4,6-ditertpentylphenol which is a substance in the Candidate List for substances of very high concern in accordance with Article 59(10) of 1907/2006 (as amended).

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H361d

Suspected of damaging the unborn child

H372

Causes damage to hearing organs

Precautionary statement(s)

P201

Obtain special instructions before use.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P308 + P303

If exposed or concerned: Get medical advice/attention.

Supplemental Hazard Statements

None

2.2 Label elements

This substance/mixture contains components considered to be persistent, bioaccumulative and toxic (PBT) and very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component	Classification	Concentration
Styrene		
CAS-No. 100-42-5 EC-No. 202-851-5 Index-No. 601-026-00-0	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Repr. 2; STOT RE 1; H226, H315, H319, H332, H361d, H372	9.3-11.3 %
2-(2h-Benzotriazol-2-yl)-4,6-ditertpentylphenol		
CAS-No. 25973-55-1 EC-No. 247-384-8 Index-No. [-]	STOT SE 3; Aquatic Chronic 4; H373, H413	<0.2%

For the full text of the H-Statements mentioned in this Section, see Section 16. Contains a substance in the Candidate List for substances of very high concern in accordance with Article 59(10) of 1907/2006 (as amended).

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If vapour or mists are breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water. If irritation persists seek further medical attention.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and seek further medical attention.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion

5.3 Advice for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus Use water spray to cool containers. Use water fog to disperse vapours that have not ignited. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (refer to Section 8 for details). Ensure adequate ventilation. Remove all sources of ignition.

6.2 Environmental precautions

Do not let product enter drains or watercourses.

6.3 Methods and materials for containment and cleaning up

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep in a dry and well-ventilated place. Keep away from sources of ignition.

7.3 Specific end use(s)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

Component	CAS No.	Reference period	Exposure Limit	Basis
Styrene	100-42-5	8hr TWA 15minSTEL	430mg/m ³ 1080mg/m ³	UK. EH40 WEL

Biological occupational exposure limits

None

8.2 Exposure controls

Appropriate engineering controls

Use in well ventilated areas. Use mechanical ventilation in poorly ventilated areas.

Personal protective equipment

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Recommended glove types include Polythene, PVA and Viton gloves.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Where risk assessment in accordance with the hierarchy of controls established within the Chemical Agents Directive shows a requirement for respirators as a means of control use an organic filter type A.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Sticky/Tacky sheet wrapped in nylon film
b) Odour	Styrene
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	>21 °C - =<60 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.2-1.8
n) Water solubility	Miscible in water
o) Partition coefficient: (n- octanol/water)	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	not applicable
s) Explosive properties	None
t) Oxidizing properties	None

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available on mixture.

10.2 Chemical stability

Expected to be Stable at normal temperatures and under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

High temperature (>50 °C), sources of ignition & direct sunlight.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ (Oral) >6000 mg/kg (Rat)

LC₅₀ (Inhalation) 12mg/litre/4h (Rat) (Styrene)

LD₅₀ (Dermal) >2000 mg/kg (Rat)

Skin corrosion/irritation

No data available on material. May cause mild skin irritation or dermatitis on prolonged contact.

Serious eye damage/eye irritation

No data available on material. May cause mild eye irritation.

Respiratory or skin sensitisation

No data available on mixture. Not expected to have sensitisation potential.

Germ cell mutagenicity

No data available on mixture. Laboratory experiments have shown mutagenic effects in styrene..

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

Reproductive toxicity

Contains styrene which is suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

No data available on mixture.

Specific target organ toxicity - repeated exposure

May cause ototoxic effects through prolonged or repeated exposure.

Aspiration hazard

None.

Potential health effects

Inhalation	Excessive or prolonged inhalation of vapours may be harmful.
Ingestion	May cause nausea and gastric pain if swallowed.
Skin	May cause mild skin irritation or dermatitis on prolonged contact.
Eyes	May cause transient eye irritation.

Signs and Symptoms of Exposure

Dermatitis, central nervous system depression, nausea, dizziness and headache. Prolonged uncontrolled exposure may cause hearing loss or impairment.

Additional Information

Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity (for pure styrene)

Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - 17.00 - 66.00 mg/l - 48 h

NOEC - *Pimephales promelas* (fathead minnow) - 4 mg/l - 96 h

LC50 - *Pimephales promelas* (fathead minnow) - 4.08 mg/l - 96 h

LOEC - *Pimephales promelas* (fathead minnow) - 7.6 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - *Daphnia magna* (Water flea) - 182.00 mg/l - 24 h

NOEC - *Daphnia magna* (Water flea) - 1.9 mg/l - 48 h

LOEC - *Daphnia magna* (Water flea) - 3.3 mg/l - 48 h

EC50 - *Daphnia magna* (Water flea) - 4.7 mg/l - 48 h

12.2 Persistence and degradability

Contains 2-(2h-Benzotriazol-2-yl)-4,6-ditertpentylphenol which will be persistent in the environment

12.3 Bioaccumulative potential

Contains 2-(2h-Benzotriazol-2-yl)-4,6-ditertpentylphenol; with bioaccumulative potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Contains 2-(2h-Benzotriazol-2-yl)-4,6-ditertpentylphenol which is classified as PBT and vPvB.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Material is classified as hazardous waste under the Hazardous Waste Regulations 2005 (as amended). Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name ADR/RID:

Not dangerous goods IMDG:

Not dangerous goods IATA:

Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

14.6 Special precautions for user

no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)

EH40/2005 Workplace Exposure Limits (as amended)

Environmental Protection Act 1990

Hazardous Waste Regulations 2005 (as amended)

15.2 Chemical Safety Assessment

No data available.

16. OTHER INFORMATION

Further information

Text of H-code(s) and R-phrase(s) mentioned in Section 3

H226 Flammable liquid and vapour

H332 Harmful if inhaled

H315 Causes skin irritation

H319 Causes serious eye irritation

H361d Suspected of damaging the unborn child

H372 Causes damage to hearing organs

H373 May cause damage to organs

H413 May cause long lasting harmful effects to aquatic life

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision History

Second revision – changes to section 2, 3, 11 and 12 to reflect changes to contents and their hazardous properties

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Group 14 Company, LLC However, Group 14 Company, LLC makes no guarantee been prepared for the guidance of plant engineering, operations, management and for people working with or handling these or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.