

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

ReflectSleeve 1450E

of the mixture

Registration number -

Synonyms None.

Issue date 30-September-2013

Version number 01
Revision date Supersedes date -

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

Identified uses Fiberglass Sleeve with Aluminized Film.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Federal-Mogul Corporation, Manchester International

Office Centre

Address: Styal Road, Manchester M22 5TN

England

Telephone: +44 (0) 161 955 5200 **Fax:** +44 (0) 161 955 5204

Emergency telephone: 24hr EP (INFOTRAC): 1-800-535-5053

International: (001) 352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Not classified for health hazards.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Under normal conditions of processing and use, exposure to the chemical constituents in this

product is unlikely. Used as intended, this product is not expected to generate potentially

hazardous quantities of dust or fumes.

Main symptoms Not relevant, due to the form of the product.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

PreventionObserve good industrial hygiene practices.ResponseNo specific first aid measures noted.StorageStore away from incompatible materials.

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

Supplemental label information Not applicable.

2.3. Other hazardsNot a PBT or vPvB substance or mixture.

ReflectSleeve 1450E SDS UK

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

Fiberglass 88 - 92 65997-17-3 - 650-016-00-2

266-046-0

Classification: DSD: -

CLP: -

Aluminized pressure-sensitive film 8 - 12 Proprietary - -

Not relevant, due to the form of the product.

Classification: DSD: -

CLP: -

Composition comments This product does not generate dust when used as intended.

ReflectSleeve 1450E is a woven, one-piece fiberglass sleeve material that is adhesively bonded

with an aluminized heat-seal film.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

InhalationNo specific first aid measures noted.Skin contactNo adverse effects due to skin contact.

Eye contact No specific first aid measures noted. However, immediately flush with plenty of water for at least

15 minutes.

Ingestion No adverse effects due to ingestion are expected.

4.2. Most important symptoms and effects, both acute and

and effects, both

delayed
4.3. Indication of any

immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards This product is not flammable.

5.1. Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None.

5.2. Special hazards arising from the substance or mixture

By heating and fire, toxic vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

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

Special fire fighting

procedures

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergencyUsed as intended, this product is not expected to generate potentially hazardous quantities of dust

personnel or fumes.

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For emergency responders Use personal protection recommended in section 8 of the SDS.

6.2. Environmental precautions No special environmental precautions required

6.3. Methods and material for containment and cleaning up

No specific precautions.

6.4. Reference to otherFor personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

sections

ReflectSleeve 1450E SDS UK

916240 Version No.: 01 Revision date: - Issue date: 30-September-2013

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Normal handling and use of this product should not generate dust or fumes. The intended use of this product does not include its milling, grinding or saw cutting. Observe good industrial hygiene

practices

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container in a dry place.

7.3. Specific end use(s) Fiberglass Sleeve with Aluminized Film.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form
Fiberglass (CAS 65997-17-3)	TWA	1 fibers/mL	Fiber.
3333 3,		5 mg/m3	Fiber.

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available.

Predicted no effect

Not available.

concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering Used as intended, this product is not expected to generate potentially hazardous quantities of dust

controls or fumes.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection No special precautions.

Skin protection

- Hand protection
 - Other
 No protection is ordinarily required under normal conditions of use.
 No skin protection is ordinarily required under normal conditions of use.

Respiratory protectionNo protection is ordinarily required under normal conditions of use and with adequate ventilation.

Thermal hazards Not applicable.

Hygiene measures Wash hands after handling.

Environmental exposure

controls

No special environmental precautions required

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Aluminum color.

Physical state Solid.
Form Solid.

Colour Aluminum color.

Odour Odourless.

Odour threshold Not applicable.

pH Not applicable.

Melting point/freezing point > 260 °C (> 500 °F)

Initial boiling point and boiling

range

Not applicable.

Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.

ReflectSleeve 1450E SDS UK

3/6

916240 Version No.: 01 Revision date: - Issue date: 30-September-2013

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - upper

Not applicable.

Not applicable. Vapour pressure Vapour density Not applicable.

2.2 Relative density

Insoluble in water. Solubility(ies) **Auto-ignition temperature** > 250 °C (> 482 °F)

Not available. **Decomposition temperature Viscosity** Not applicable. **Explosive properties** Not available. Oxidizing properties Not available.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity Stable at normal conditions.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid No special precautions.

10.5. Incompatible materials None known.

10.6. Hazardous Thermal decomposition of this product can generate carbon monoxide, carbon dioxide and

nitrogen oxides. decomposition products

SECTION 11: Toxicological information

General information Used as intended, this product is not expected to generate potentially hazardous quantities of

dust or fumes.

Information on likely routes of exposure

Ingestion Not relevant, due to the form of the product.

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Eye contact No adverse effects due to eye contact are expected.

Symptoms Not relevant, due to the form of the product.

11.1. Information on toxicological effects

Acute toxicity Used as intended, this product is not expected to generate potentially hazardous quantities of

dust or fumes.

Skin corrosion/irritation No adverse effects due to skin contact are expected.

Serious eye damage/eye

irritation

No adverse effects due to eye contact are expected.

Not relevant, due to the form of the product. Respiratory sensitisation

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity Not relevant, due to the form of the product. Not relevant, due to the form of the product. Carcinogenicity Reproductive toxicity Not relevant, due to the form of the product. Specific target organ toxicity -Not relevant, due to the form of the product.

single exposure

Specific target organ toxicity -

repeated exposure

Not relevant, due to the form of the product.

Not relevant, due to the form of the product. **Aspiration hazard**

Mixture versus substance

information

Not available.

Other information Not relevant, due to the form of the product.

ReflectSleeve 1450E SDS UK

SECTION 12: Ecological information

12.1. Toxicity Not relevant, due to the form of the product in its manufactured and shipped state.

12.2. Persistence and

degradability

Not relevant.

12.3. Bioaccumulative potential Not relevant.Partition coefficient Not applicable.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soilNot relevant, due to the form of the product.Mobility in generalNot relevant, due to the form of the product.12.5. Results of PBTNot relevant, due to the form of the product.

and vPvB assessment

12.6. Other adverse effects Not relevant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container is

emptied.

EU waste code 16 03 04

Disposal methods/information Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulkAnnex II of

MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

ReflectSleeve 1450E SDS UK

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as

amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

DNEL: Derived No-Effect Level. List of abbreviations

None

PNEC: Predicted No-Effect Concentration.

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

References Registry of Toxic Effects of Chemical Substances (RTECS)

HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the

classification of mixture

methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

Training information

Follow training instructions when handling this material.

Disclaimer

The information provided on this data sheet was abstracted from supplier safety data sheets and standard references in occupational health and toxicology. Federal-Mogul makes no

The classification for health and environmental hazards is derived by a combination of calculation

representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to

safeguard workers and the environment.

ReflectSleeve 1450E SDS UK