



Printing date 05.06.2012 Version number 1 Revision: 05.06.2012

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

- · Product identifier
- · Trade name: Elcocarb C/SP
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation : Carbon Paste For Conductive Layers.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

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· Emergency telephone number:

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Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24)

EU Tel: 112

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008:

The product is not classified according to the CLP regulation.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.
- · Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product has not been classified and marked in accordance with EU Directives / respective national laws.

2008/58/CE (30eme ATP); 2009/2/CE (31eme ATP); 2006/8/CE

· Special labelling of certain preparations:

Safety data sheet available for professional user on request.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture: consisting of the following components.

Carbon Paste For Conductive Layers.

(Contd. on page 2)





Printing date 05.06.2012 Version number 1 Revision: 05.06.2012

Trade name: Elcocarb C/SP

(Cont	d. of page 1)
· Dangerous components:	
68586-02-7 Ethoxybis(pentane-2,4-dionato-	≤2.5%
O,O')(propane-2-olato)titane	
¥ Xi R38-41	
17927-72-9 Bis(pentane-2,4-dionato-O,O')bis(propane-	≤2.5%
2-olato)titane	
X Xi R41	
• Additional information: For the wording of the listed risk phrases, refer to section 16.	

4 First aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After excessive inhalation: Supply fresh air; consult a doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed :

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed :

No further relevant information available.

5 Firefighting measures

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture :

No further relevant information available.

- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures : Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections :

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

- GE





Printing date 05.06.2012 Version number 1 Revision: 05.06.2012

Trade name: Elcocarb C/SP

(Contd. of page 2)

7 Handling and storage

- · Handling:
- · Precautions for safe handling: No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any signifiant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information:

As a basis for the production of this document, the most current valid lists were used.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Gloves material :

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before use.

· Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Pasty

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

(Contd. on page 4)





Printing date 05.06.2012 Version number 1 Revision: 05.06.2012

Trade name: Elcocarb C/SP

	(Contd. of page	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	> 64°C	
Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	Not applicable.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not self igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure at 20°C:	59 hPa	
Density:	Not determined.	
Relative density :	Not determined.	
· Vapour density :	Not determined.	
· Evaporation rate :	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Segregation coefficient (n-octanol/v	water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.1 %	
· Other information :	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions : No dangerous reactions known.
- · Conditions to avoid : No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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(Contd. of page 4)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · On the skin: No irritant effect.
- · On the eyes: No irritant effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil : No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · ADR, ADN, IMDG, IATA Void
- · UN proper shipping name
- ADR, ADN, IMDG, IATA Void

(Contd. on page 6)





Printing date 05.06.2012 Version number 1 Revision: 05.06.2012

Trade name: Elcocarb C/SP

		(Contd. of page 5)
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA	Void	
· Class	Void	
Packing groupADR, IMDG, IATA	Void	
Environmental hazards:Marine pollutant:	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· UN "Model Regulation":	-	

15 Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H315 Causes skin irritation.

H318 Causes serious eye damage.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Éuropean Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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