

1. Identification of the substance/preparation and company

1.1 Commercial Product Name

Shieldokit

Use of the substance/preparation

Conductive Connection

1.2 Information manufacturer/supplier

Holland Shielding Systems BV
P.O.Box 730
3300 AS Dordrecht
The Netherlands

Jacobus Lipsweg 124
3316 BP Dordrecht
The Netherlands

Telephone: +31 (0) 78 613 13 66

Telefax: +31 (0) 78 614 95 85

Contact Person: Ing. A.M. van Tienhoven

2. Compostion/information on ingredients

Chemical characterization: (preparation)

Silver pigmented adhesive

Hazardous components

(Full text of each relevant R phrase can be found in heading 16)

Ec. No.	CAS No.	Components	Value	Symbols	R-phrases
500-033-5	25068-38-6	Reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number average molecular weight .LE. 700)	10 – 15 %	Xi, N	R36/38-43- 51-53
219-371-7	2425-79-8	1,4-bis (2,3 epoxypropox) butane; (butanedioldiglycidyl ether)	1 – 5 %	Xi, N	R20/21- 36/38 43
201-557-4	84-74-2	Dibutyl phthalate	1 – 5 %	Repr. Cat. 2 Repr. Cat 3, N	R61-62-50

3. Hazards Identification

Symbols : Toxic

R-phrases:

May cause harm to the unborn child

Possible risk of impaired fertility

May cause sensitization by skin contact

Irritating to eyes and skin

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment



4. First aid measures

General information

Remove contaminated soaked clothing immediately
In the event of persistent symptoms refer for medical treatment

After inhalation

Move to fresh air in case of accidental inhalations of vapours or decomposition products
In the event of symptoms refer for medical treatment

After contact with skin

Wash off immediately with soap and plenty of water
Consult a doctor if skin irritation persists

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Consult an physician

After ingestion

Immediately give plenty of water (if possible charcoal slurry)
Never give anything by mouth to an unconscious person
Do not induce vomiting
Summon a doctor immediately

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Fire may produce:

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply

Additional Information

Cool containers at risk with water spray jet.



6. Accidental release measures

Personal precautions

In case of vapour formation use respirator
Ensure adequate ventilation
Use personal protective clothing

Environmental precautions

Clean contaminated surface thoroughly
Do not discharge into the drains/surface waters/groundwater

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

7. Handling and storage

7.1 Handling

Advice on safe handling

Keep container tightly closed

Use only in thoroughly ventilated areas.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required

7.2 Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.
Protect against direct sun radiation
Keep at temperatures between 5°C and 40°C

Advice on storage compatibility

Incompatible with:
Oxidizing agents
Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.



8. Exposure controls/personal protection

8.1 Exposure limit values

Exposure limits (EH40)

Components	Exposure limit				
CAS No.	Ml/m ³	Mg/m ³	F/ml	Category	Origin
Dibutyl phthalate	-	5		TWA (8h)	OES
84-74-2	-	10		STEL (15 min)	OES

8.2 Exposure controls

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours

Wash hands before breaks and immediately after handling the product

When using, do not eat, drink or smoke

Avoid contact with skin, eyes and clothing

Remove and wash contaminated clothes before re-use

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A)

Hand protection

Protective gloves resistant to chemical made of butyl, Minimum coat thickness 0,7mm, Permeation resistance (wear duration) > 60 minutes, i.e. protective glove <Butoject 898> made by ww.kcl.de

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Eye wash bottle with pure water

Body protection

Long sleeved clothing

9. Physical and chemical properties

9.1 Appearance

Form: Pasty
Colour: Silver Grey
Odour: Characteristic

9.2 Important health, safety and environmental information

Changes in the physical state	Test method
Boiling point	not determined °C
Flash point Flammability	>140 °C
Density (at 20°C)	2,7 g/cm ³

Further information

10. Stability and reactivity

Conditions to avoid

No decomposition if used as directed

Materials to avoid

Strong oxidizing agents
Strong acids and strong bases

Additional information

No decomposition if stored and applied as directed

11. Toxicological information

Empirical data on effects on humans

Irritating to eyes and skin
Sensitization through skin contact possible

12. Ecological information

Additional information

Do not flush into surface water or sanitary sewer system.

13. Advice on disposal

Dispose

For recycling consult manufacturer
Disposal in accordance with local regulations

Waste disposal number of Waste from residues / unused product: 200127

MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing dangerous substances

Classified as hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal

Contaminated packaging are to be treated like the product itself

14. Transport information

14.1 Land transport (ADR/RID)

14.2 Inland waterways transport

14.3 Marine transport

14.4 Air transport

14.5 Further Information

Other data

Not subject of the requirements of ADR/RID



15. Regulatory information

15.1 Labelling

Indication of danger

T-Toxic

Labelling according to EC-guidelines

According to EC-regulations the product is to be labelled as follows:

Hazardous component(s) to be indicated on label

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight .LE.700), dibutyl phthalate.

R phrases

61-62-43-36/38-52/53

May cause harm to the unborn child

Possible risk of impaired fertility

May cause sensitization by skin contact

Irritating to eyes and skin

Harmful to aquatic organisms, may cause long-term adverse effect in the aquatic environment

S phrases

28-45-61-37/39

After contact with skin, wash immediately with plenty of water and soap.

In case of accidental or if you feel unwell, seek medical advice immediately (show the label where possible).

Avoid release to the environment. Refer to special instructions / Safety data sheets.

Wear suitable gloves and eye/face protection.

Special labelling for certain preparations

Contains epoxy constituents. See information supplied by the manufacturer.

15.2 National regulations

Employment restrictions:

Observe employment restrictions for child bearing mothers and nursing.; Observe employment restrictions for women of child-bearing age.

Water contaminating class: 2 – water contaminating

1999/13/EC (VOC): < 10 %

16. Other information

List of relevant R phrases

- 43 May cause sensitization by skin contact.
- 50 Very
- 61 May cause harm to the unborn child
- 62 Possible risk of impaired fertility
- 20/21 Harmful by inhalation and in contact with skin
- 36/38 Irritating to eyes and skin
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other data

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

“(n.a. = not applicable; n.d. = not determined)”



Holland Shielding Systems BV