

3471A

Safety Data Sheet according to (EC) No 1907/2006

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SDS No.: 173477

V006.1 Revision: 27.05.2015

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Replaces version from: 19.02.2015

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

1.1. Product identifier

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Contains:

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1,3-bis(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]propane Oxirane, mono[(C10-16-alkyloxy)methyl] derivs

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

Intended use: Epoxy adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

$\textbf{Classification} \ (\textbf{CLP}) \textbf{:}$

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Signal word: Warning

Hazard statement: H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement: P273 Avoid release to the environment.

Prevention P280 Wear protective gloves.

Precautionary statement: P302+P352 IF ON SKIN: Wash with plenty of water.

Response P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

None if used properly.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components | EC Number | content | Classification |
|---|--|-----------|--|
| CAS-No. | REACH-Reg No. | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | 500-033-5 500-033-5 01-2119456619-26 | 25- 50 % | Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411 |
| 1,3-bis(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]propane 3126-63-4 | 221-507-5 | 2,5- 10 % | Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 |
| Oxirane, mono[(C10-16-alkyloxy)methyl] derivs 68081-84-5 | 268-358-2 | <= 2,5 % | Skin Irrit. 2; Dermal H315 Skin Sens. 1; Dermal H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411 |

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

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Skin contact:

Rinse with running water and soap.

Seek medical advice.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact.

See advice in section 8

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Wash spillage site thoroughly with soap and water or detergent solution.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

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Hygiene measures:

Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed. Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

7.3. Specific end use(s)

Epoxy adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

None

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | ironmental Exposure Value | | | | | Remarks |
|---|------------------------------------|---------------------------|------|-----|-----------------|------------------|---------|
| | • | 1 | mg/l | ppm | mg/kg | others | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | aqua (freshwater) | | | | | 0,006 mg/L | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | aqua (marine water) | | | | | 0,0006 mg/L | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | aqua (intermittent releases) | | | | | 0,018 mg/L | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | STP | | | | | 10 mg/L | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | sediment (freshwater) | | | | 0,996 mg/kg | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | sediment (marine water) | | | | 0,0996 mg/kg | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | soil | | | | 0,196 mg/kg | | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | oral | | | | | 11 mg/kg food | |

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Derived No-Effect Level (DNEL):

| Name on list | Area Exposure Time | | Exposure Time | Value | Remarks | |
|---|-----------------------|------------|--|-------|--------------------|--|
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | Dermal | Acute/short term exposure - systemic effects | | 8,33 mg/kg bw/day | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 12,25 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | Dermal | Long term exposure - systemic effects | | 8,33 mg/kg bw/day | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | Workers | Inhalation | Long term exposure - systemic effects | | 12,25 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | general population | Dermal | Acute/short term exposure - systemic effects | | 3,571 mg/kg bw/day | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | general population | Dermal | Long term exposure - systemic effects | | 3,571 mg/kg bw/day | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | general population | Inhalation | Acute/short term exposure - systemic effects | | 0,75 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | general population | Inhalation | Long term exposure - systemic effects | | 0,75 mg/m3 | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | general population | oral | Acute/short term exposure - systemic effects | | 0,75 mg/kg bw/day | |
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | general population | oral | Long term exposure - systemic effects | | 0,75 mg/kg bw/day | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

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Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance paste grey
Odor mild

Odour threshold No data available / Not applicable

pH No data available / Not applicable

 $\begin{array}{ll} \mbox{Initial boiling point} & > 100 \ ^{\circ}\mbox{C} \ (> 212 \ ^{\circ}\mbox{F}) \\ \mbox{Flash point} & > 100 \ ^{\circ}\mbox{C} \ (> 212 \ ^{\circ}\mbox{F}) \end{array}$

Decomposition temperature

Vapour pressure

No data available / Not applicable

No data available / Not applicable

Density 2,3 g/cm³

()

Bulk density
No data available / Not applicable
Viscosity
No data available / Not applicable
Viscosity (kinematic)
No data available / Not applicable
Explosive properties
No data available / Not applicable

Solubility (qualitative) Not miscible

(Solvent: Water)

Solidification temperature No data available / Not applicable Melting point No data available / Not applicable No data available / Not applicable Flammability No data available / Not applicable Auto-ignition temperature Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable Oxidising properties No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong oxidants.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

carbon oxides.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

May cause irritation to respiratory system.

Skin irritation:

Causes skin irritation.

Eye irritation:

Causes serious eye irritation.

Sensitizing:

May cause an allergic skin reaction.

Acute oral toxicity:

| Hazardous components | Value | Value | Route of | Exposure | Species | Method |
|--------------------------|-------|---------------|-------------|----------|---------|--------|
| CAS-No. | type | | application | time | | |
| Reaction product: | LD50 | > 2.000 mg/kg | oral | | rat | |
| bisphenol-A- | | | | | | |
| (epichlorhydrin); epoxy | | | | | | |
| resin (number average | | | | | | |
| molecular weight <= 700) | | | | | | |
| 25068-38-6 | | | | | | |
| Oxirane, mono[(C10-16- | LD50 | > 5.000 mg/kg | oral | | rat | |
| alkyloxy)methyl] derivs | | | | | | |
| 68081-84-5 | | | | | | |

Acute dermal toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---------------|--------------|----------------------|---------------|---------|--------|
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) | LD50 | 23.000 mg/kg | dermal | | rabbit | |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|---------------------|------------------|---------|---|
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | slightly irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|----------------|---------------|---------|--|
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

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Respiratory or skin sensitization:

| Hazardous components | Result | Test type | Species | Method |
|--------------------------|-------------|-----------|---------|----------------------------|
| CAS-No. | | | | |
| Reaction product: | sensitising | Mouse | mouse | OECD Guideline 429 (Skin |
| bisphenol-A- | | local | | Sensitisation: Local Lymph |
| (epichlorhydrin); epoxy | | lymphnod | | Node Assay) |
| resin (number average | | e assay | | |
| molecular weight <= 700) | | (LLNA) | | |
| 25068-38-6 | | | | |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|----------|--|--|---------|---|
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | negative | bacterial reverse mutation assay (e.g Ames test) | | | OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay) |

SECTION 12: Ecological information

General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:

Toxic to aquatic life with long lasting effects.

Do not empty into drains / surface water / ground water.

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| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|--|---------------|---------------|----------------------------|---------------|---|--|
| Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | LC50 | 1,750000 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | LC50 | 1,75 mg/l | Fish | 96 h | Oncorhynchus mykiss (reported as Salmo gairdneri) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | NOEC | 2,4 mg/l | Algae | 72 h | Scenedesmus capricornutum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | EC50 | 9,4 mg/l | Algae | 72 h | Scenedesmus capricornutum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | NOEC | 0,3 mg/l | chronic Daphnia | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| 1,3-bis(2,3-epoxypropoxy)- 2,2-bis[(2,3- epoxypropoxy)methyl]propan e 3126-63-4 | LC50 | 460 mg/l | Fish | 96 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Oxirane, mono[(C10-16-alkyloxy)methyl] derivs 68081-84-5 | LC50 | > 1 - 10 mg/l | Fish | 96 h | | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Oxirane, mono[(C10-16-alkyloxy)methyl] derivs 68081-84-5 | EC50 | > 1 - 10 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

12.2. Persistence and degradability

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|--|--------|----------------------|---------------|---|
| Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6 | | aerobic | 5 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility: Cured adhesives are immobile.

| Hazardous components | LogKow | Bioconcentration | Exposure | Species | Temperature | Method |
|----------------------------|--------|------------------|----------|---------|-------------|----------------------------|
| CAS-No. | | factor (BCF) | time | | | |
| 1,3-bis(2,3-epoxypropoxy)- | < 2,6 | | | | | OECD Guideline 107 |
| 2,2-bis[(2,3- | | | | | | (Partition Coefficient (n- |
| epoxypropoxy)methyl]propan | | | | | | octanol / water), Shake |
| e | | | | | | Flask Method) |
| 3126-63-4 | | | | | | |

12.5. Results of PBT and vPvB assessment

| Hazardous components | PBT/vPvB |
|----------------------|----------|
| CAS-No. | |

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| Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
|---|---|
| <= 700) 25068-38-6 | |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Dispose of in accordance with local and national regulations.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

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SECTION 14: Transport information

14.1. UN number

| ADR | 3082 |
|------|------|
| RID | 3082 |
| ADN | 3082 |
| IMDG | 3082 |
| IATA | 3082 |

14.2. UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

14.3. Transport hazard class(es)

| ADR | 9 |
|------|---|
| RID | 9 |
| ADN | 9 |
| IMDG | 9 |
| ΙΔΤΔ | C |

14.4. Packaging group

| ADR | III |
|------|-----|
| RID | III |
| ADN | III |
| IMDG | III |
| ΙΔΤΔ | III |

14.5. Environmental hazards

| ADR | not applicable |
|------|------------------|
| RID | not applicable |
| ADN | not applicable |
| IMDG | Marine pollutant |
| IATA | not applicable |

14.6. Special precautions for user

| ADR | not applicable |
|------|-----------------|
| | Tunnelcode: (E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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(1999/13/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Label elements (DPD):

Xi - Irritant

N - Dangerous for the environment





Risk phrases:

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labeling:

Contains epoxy constituents. See information supplied by the manufacturer.

Contains:

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700), 1,3-bis(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]propane,

Oxirane, mono[(C10-16-alkyloxy)methyl] derivs

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.