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



SDS No. : 386685
V003.3

LOCTITE ABLESTIK 8370 known as Ablebond 8370 (7g),

Revision: 25.05.2015
printing date: 30.03.2020
Replaces version from: 16.01.2014

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

**1.1. Product identifier**
LOCTITE ABLESTIK 8370 known as Ablebond 8370 (7g),

**Contains:**
Bisphenol-F epichlorhydrin resin; MW<700
Phenol-formaldehyde polymer

**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**

**Classification (CLP):**

| | |
|---|---|
| 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 3 |
| H412 Harmful to aquatic life with long lasting effects. | |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**



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**Signal word:** Warning

**Hazard statement:**
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement: Prevention**
P273 Avoid release to the environment.
P280 Wear protective gloves.

**Precautionary statement: 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

**General chemical description:**
Adhesive
**Base substances of preparation:**
Epoxy resin

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

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | 500-006-8<br>500-006-8<br>01-2119454392-40 | >= 2,5- < 10 % | Skin Irrit. 2; Dermal<br>H315<br>Skin Sens. 1; Dermal<br>H317<br>Aquatic Chronic 2<br>H411 |
| .gamma.-Butyrolactone<br>96-48-0 | 202-509-5<br>01-2119471839-21 | >= 1- < 3 % | Acute Tox. 4; Oral<br>H302<br>Eye Dam. 1<br>H318<br>STOT SE 3<br>H336 |
| Phenol-formaldehyde polymer<br>9003-35-4 | 500-005-2 | >= 1- < 3 % | Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>Skin Sens. 1<br>H317 |

**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:
Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.

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Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**
SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

Prolonged or repeated contact may cause skin irritation.

**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:**
water, carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**
High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**
In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

**5.3. Advice for firefighters**
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Additional information:**
In case of fire, keep containers cool with water spray.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Wear protective equipment.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**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.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid skin and eye contact.

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

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**7.2. Conditions for safe storage, including any incompatibilities**
Ensure good ventilation/extraction.
Keep container tightly sealed.
Keep frozen.

**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 | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | aqua (freshwater) | | | | | 0,003 mg/L | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | aqua (marine water) | | | | | 0,0003 mg/L | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | STP | | | | | 10 mg/L | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | sediment (freshwater) | | | | 0,294 mg/kg | | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | sediment (marine water) | | | | 0,0294 mg/kg | | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | soil | | | | 0,237 mg/kg | | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | aqua (intermittent releases) | | | | | 0,0254 mg/L | |
| .gamma.-Butyrolactone 96-48-0 | aqua (freshwater) | | | | | 0,056 mg/L | |
| .gamma.-Butyrolactone 96-48-0 | aqua (marine water) | | | | | 0,0056 mg/L | |
| .gamma.-Butyrolactone 96-48-0 | aqua (intermittent releases) | | | | | 0,56 mg/L | |
| .gamma.-Butyrolactone 96-48-0 | sediment (freshwater) | | | | 0,24 mg/kg | | |
| .gamma.-Butyrolactone 96-48-0 | sediment (marine water) | | | | 0,02 mg/kg | | |
| .gamma.-Butyrolactone 96-48-0 | soil | | | | 0,014683 mg/kg | | |
| .gamma.-Butyrolactone 96-48-0 | STP | | | | | 452 mg/L | |

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**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | Workers | Dermal | Acute/short term exposure - local effects | | 0,0083 mg/cm2 | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | Workers | Dermal | Long term exposure - systemic effects | | 104,15 mg/kg bw/day | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | Workers | Inhalation | Long term exposure - systemic effects | | 29,39 mg/m3 | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | general population | Dermal | Long term exposure - systemic effects | | 62,5 mg/kg bw/day | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | general population | Inhalation | Long term exposure - systemic effects | | 8,7 mg/m3 | |
| Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 9003-36-5 | general population | oral | Long term exposure - systemic effects | | 6,25 mg/kg bw/day | |
| .gamma.-Butyrolactone 96-48-0 | Workers | Inhalation | Long term exposure - systemic effects | | 130 mg/m3 | |
| .gamma.-Butyrolactone 96-48-0 | Workers | Dermal | Long term exposure - systemic effects | | 19 mg/kg bw/day | |
| .gamma.-Butyrolactone 96-48-0 | general population | Inhalation | Long term exposure - systemic effects | | 28 mg/m3 | |
| .gamma.-Butyrolactone 96-48-0 | general population | Dermal | Long term exposure - systemic effects | | 8 mg/kg bw/day | |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:
Ensure good ventilation/extraction.

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<br>gold |
| Odor | mild |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | Not available. |
| Decomposition temperature | No data available / Not applicable |
| Vapour pressure | Not applicable |
| Density | No data available / Not applicable |
| 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)<br>(Solvent: Water) | Insoluble |
| Solidification temperature | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| 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**
Reacts with alcohols and amines.
Reacts with oxidants, acids and lyes
Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
No decomposition if stored and applied as directed.

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**10.5. Incompatible materials**
See section reactivity

**10.6. Hazardous decomposition products**
Hydrocarbons
carbon oxides.
nitrogen oxides
Rapid polymerisation may generate excessive heat and pressure.

## 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:**
Prolonged or repeated contact may cause skin irritation.

**Eye irritation:**
Causes serious eye irritation.

**Sensitizing:**
May cause an allergic skin reaction.

**Acute oral toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | LD50 | > 2.000 mg/kg | oral | | rat | |
| .gamma.-Butyrolactone<br>96-48-0 | LD50 | 1.582 mg/kg | oral | | rat | BASF Test |
| Phenol-formaldehyde polymer<br>9003-35-4 | LD50 | 4.100 mg/kg | oral | | rat | |

**Acute inhalative toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| .gamma.-Butyrolactone<br>96-48-0 | LC50 | > 2,68 mg/l | | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Acute dermal toxicity:**

| Hazardous components<br>CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|

**Serious eye damage/irritation:**

| Hazardous components<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| .gamma.-Butyrolactone<br>96-48-0 | highly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

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## 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:**
Harmful to aquatic life with long lasting effects.
Do not empty into drains / surface water / ground water.

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5 | EC50 | 1,6 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5 | EC50 | 1,8 mg/l | Algae | 72 h | | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5 | NOEC | 0,3 mg/l | chronic Daphnia | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| .gamma.-Butyrolactone 96-48-0 | LC50 | 220 - 460 mg/l | Fish | 96 h | Leuciscus idus | DIN 38412-15 |
| .gamma.-Butyrolactone 96-48-0 | EC50 | > 500 mg/l | Daphnia | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |
| .gamma.-Butyrolactone 96-48-0 | EC50 | 360 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

### 12.2. Persistence and degradability

**Persistence and Biodegradability:**
The product is not biodegradable.

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|---|---|---|---|---|
| Bisphenol-F epichlorhydrin resin; MW<700 9003-36-5 | | aerobic | 5 % | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| .gamma.-Butyrolactone 96-48-0 | | aerobic | 62 - 90 % | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |

### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

**Mobility:**
Cured adhesives are immobile.

**Bioaccumulative potential:**
No data available.

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|---|---|---|---|---|---|---|
| .gamma.-Butyrolactone 96-48-0 | -0,566 | | | | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

### 12.5. Results of PBT and vPvB assessment

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

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| | |
|---|---|
| Bisphenol-F epichlorhydrin resin; MW<700<br>9003-36-5 | Not fulfilling PBT (persistent/bioaccummulative/toxic) criteria |
| .gamma.-Butyrolactone<br>96-48-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**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.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## SECTION 14: Transport information

**14.1. UN number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.3. Transport hazard class(es)**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packaging group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

not applicable

## SECTION 15: Regulatory information

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

VOC content (1999/13/EC) < 3 %

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**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:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
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.

**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.**