



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

- 1.1 Product identifier
- Trade name:
2K Epoxy Dust Sealer Clear - Hardener B
- Article number:
01098502
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation
Coating material
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Palatine Paints & Chemicals Limited
- Further information obtainable from: sales@palatinepaints.co.uk
- 1.4 Emergency telephone number:
CHEMTREC (24 Hours)
+1 703-741-5970 / 1-800-424-9300

02 Hazards identification

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



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.
Eye Irrit. 2 - H319 Causes serious eye irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS07 GHS09

- Signal word
Warning
- Hazard-determining components of labelling:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) / p-tert-Butylphenyldiglycidyl ether / Bisphenol-F-epoxy resin
- Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
EUH205 Contains epoxy constituents. May produce an allergic reaction.
- Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

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- P280 Wear protective gloves.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT:
Not applicable.
- vPvB:
Not applicable.

03 Composition/information on ingredients

- 3.2 Chemical characterization: Mixtures
- Description:
Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS Number		%
25068-38-6	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700) EC number: 500-033-5 Record number 01-2119456619-26-XXXX Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	50-75
3101-60-8	p-tert-Butylphenyldiglycidyl ether Record number 01-2119959496-20-XXXX Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	10-20
9003-36-5	Bisphenol-F-epoxy resin Record number 01-2119454392-40-XXXX Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	10-20

04 First aid measures

- 4.1 Description of first aid measures
- After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Take affected persons into fresh air and keep quiet.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
Do not induce vomiting; call for medical help immediately.
- Information for doctor:
- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

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05 Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:
Water with full jet
- 5.2 Special hazards arising from the substance or mixture
No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment:
Wear self-contained respiratory protective device.

06 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Not required.
- 6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections

07 Handling and storage

- Handling:
 - 7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection:
No special measures required.
- 7.2 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:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- 7.3 Specific end use(s)
No further relevant information available.

08 Exposure controls/personal protection

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
- Additional information:
The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Personal protective equipment:
 - General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.
 - Respiratory protection: Not required.
 - Protection of hands: Protective gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Use chemical resistant protective gloves according to EN 374.
 - Material of gloves

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- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Butyl rubber, BR
recommended material thickness >0,7 mm
 - Nitrile rubber, NBR
recommended thickness of the material >0.4 mm
 - Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: level 6).
 - Eye protection: Tightly sealed goggles
 - Body protection: Safety shoes according to EN ISO 20345 clothes with long sleeves long trousers Protective work clothing

09 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Boiling point/Boiling range:	> 200 °C
Flash point:	> 130 °C DIN 51376
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	> 200 °C
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	at 20 °C 1,000 hPa
Density:	1,1000 - 1,2000 g/cm3
Solubility in / Miscibility with water:	Not determined.
Viscosity:	
Dynamic:	at 20 °C 1.500 - 2.500 mPa.s
Kinematic:	Not determined.
Solvent content:	
Solids content:	100,00 %
9.2 Other information	No further relevant information available.

10 Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
No dangerous reactions known.
- 10.4 Conditions to avoid

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- No further relevant information available.
- 10.5 Incompatible materials:
No further relevant information available.
- 10.6 Hazardous decomposition products:
No dangerous decomposition products known.

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- LD/LC50 values relevant for classification:
25068-38-6 **reaction product: bisphenol-A-(epichlorhydrin)**
epoxy resin (number average molecular weight <=
700)
Oral, LD50: 2000 mg/kg (rat)
- 3101-60-8** **p-tert-Butylphenyldiglycidyl ether**
Oral, LD50: 10000 mg/kg (rat)
- Primary irritant effect:
- on the skin:
Irritant to skin and mucous membranes.
- on the eye:
Irritating effect.
- Sensitization:
Sensitisation possible through skin contact.
- Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- 12.1 Toxicity
- Aquatic toxicity:
25068-38-6 **reaction product: bisphenol-A-(epichlorhydrin)**
epoxy resin (number average molecular weight <=
700)
Dermal, LC50/96h: 1,5 mg/l (fish)
Dermal, LC50/96h: 220 mg/l (alga)
Dermal, LC50/48h: 2,8 mg/l (daphnie)
- 12.2 Persistence and degradability
No further relevant information available.
- Behaviour in environmental systems:
- 12.3 Bioaccumulative potential
No further relevant information available.
- 12.4 Mobility in soil
No further relevant information available.
- Ecotoxicological effects:
- Remark:
Toxic for fish
- Additional ecological information:
- General notes:
Toxic for aquatic organisms
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
- 12.5 Results of PBT and vPvB assessment
- PBT:
Not applicable.
- vPvB:
Not applicable.
- 12.6 Other adverse effects
No further relevant information available.

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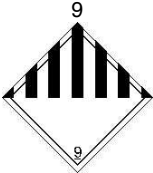

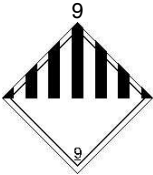

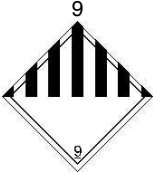
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13 Disposal considerations

- 13.1 Waste treatment methods
- Uncleaned packaging:
- Recommendation:
Disposal must be made according to official regulations.

14 Transport information

- 14.1 UN-Number
ADR UN3082
IMDG UN3082
IATA UN3082
- 14.2 UN proper shipping name
ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
- 14.3 Transport hazard class(es)
ADR 9 (M6) Miscellaneous dangerous substances and articles.
Class
Label

- IMDG** 9 Miscellaneous dangerous substances and articles.
Class
Label

- IATA** 9 Miscellaneous dangerous substances and articles.
Class
Label

- 14.4 Packing group
ADR III
IMDG III
IATA III
- 14.5 Environmental hazards:
Marine pollutant: Yes
- 14.6 Special precautions for user
Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler): 90

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- EMS Number:** F-A,S-F
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
 - Transport/Additional information:
- | | |
|----------------------------------|----|
| Excepted quantities (EQ): | E1 |
| Limited quantities (LQ) | 5L |
| Transport category | 3 |
- IMDG**
- | | |
|---------------------------------|----|
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | E1 |
- UN "Model Regulation":
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN), 9, III

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII
Conditions of restriction: 3
- National regulations:
- Classification according to VbF:
-
- Technical instructions (air):
- Class Share in %
III 14,00
- Waterhazard class:
Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment:

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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
- **Department issuing MSDS:**
Environment protection department.
Department for product safety
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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- * Data compared to the previous version altered.