

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

1.1. Product identifier

Product form : Mixture
Trade name : Hydroblocker 2K comp. A

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
Roterijstraat 201-203
B-8793 Waregem - Belgium
T + 32 56 62 70 51 - F + 32 56 60 95 68
info@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 70 245 245

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Skin sensitisation, Category 1 H317

Hazardous to the aquatic environment H411

— Chronic Hazard, Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS09

CLP Signal word : Warning

Hazardous ingredients : Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700); Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.;
Reaction product: Bisphenol-F-epichlorhydrin

Hazard statements (CLP) : 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 statements (CLP) : P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
P102 - Keep out of reach of children.

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P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P101 - If medical advice is needed, have product container or label at hand.
EUH-statements : EUH205 - Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700)	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26	50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	(CAS-No.) 68609-97-2 (EC-No.) 271-846-8 (REACH-no) 01-2119485289-22	10 – 25	Skin Irrit. 2, H315 Skin Sens. 1, H317
Reaction product: Bisphenol F-epichlorhydrine	(CAS-No.) 9003-36-5 (EC-No.) 500-006-8	2,5 – 10	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700)	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26	(5 C < 100) Skin Irrit. 2, H315 (5 C < 100) Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical advice if skin irritation persists. Wash contaminated clothing before reuse.
First-aid measures after eye contact : Contact lenses should be removed. If eye irritation persists, consult a specialist. Immediately flush eyes thoroughly with water for at least 15 minutes.
First-aid measures after ingestion : Call a physician immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

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

Symptoms/effects : No supplementary information available.

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

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water spray.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Do not breathe fumes.

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5.3. Advice for firefighters

- Precautionary measures fire : Use water spray or fog for cooling exposed containers. Protective non-flammable clothing.
- Firefighting instructions : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- Protection during firefighting : Wear protective clothing. EN 469. Gloves. EN 659. Wear a self contained breathing apparatus. EN 137. Rubber boots.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so.
- 6.1.1. For non-emergency personnel
- Protective equipment : Wear recommended personal protective equipment. Concerning personal protective equipment to use, see item 8.
- 6.1.2. For emergency responders
- Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Not in groundwater, surfacewater or sewerage.

6.3. Methods and material for containment and cleaning up

- For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation. Refer to Section 10 on Incompatible Materials.
- Methods for cleaning up : Clear up rapidly by scoop or vacuum. Take up liquid spill into inert absorbent material. Ensure adequate ventilation. For disposal of contaminated materials refer to section 13 : "Disposal considerations".

6.4. Reference to other sections

Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust, mist, vapours. Avoid release to the environment. Ensure adequate air ventilation. No naked flames, sparks, and do not smoke.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in the original container and with the original cap. Store in a well-ventilated place. Keep container tightly closed. Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Avoid contact with water. Prevent shock/impact. Refer to Section 10 on Incompatible Materials. Keep away from any flames or sparking source.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Reaction product: Bisphenol F-epichlorohydrine (9003-36-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	8,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	29,39 mg/m ³
Long-term - local effects, inhalation	104,15 mg/kg bw/day
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	6,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8,7 mg/m ³
Long-term - systemic effects, dermal	62,5 mg/kg bodyweight/day

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Reaction product: Bisphenol F-epichlorohydrine (9003-36-5)	
PNEC (Water)	
PNEC aqua (freshwater)	0,003 mg/l
PNEC aqua (marine water)	0,0003 mg/l
PNEC aqua (intermittent, freshwater)	0,0254 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,294 mg/kg dwt
PNEC sediment (marine water)	0,0294 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,237 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure that there is a suitable ventilation system.

Hand protection:

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

tightly fitting safety goggles. DIN EN 166

Skin and body protection:

Long sleeved protective clothing. safety foot-wear. EN ISO 20344. Wash hands and other exposed areas with soap and water before leaving work

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. In case of any doubt wear a half-mask respirator according to EN 529.

Environmental exposure controls:

Do not allow to enter drains or water courses. Assure that emissions are compliant with all applicable air pollution control regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow-brown.
Odour	: slight.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 150 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,16
Solubility	: insoluble in water.

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Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1000 mPa·s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No supplementary information available.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

No additional information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700) (25068-38-6)	
LD50 oral	13600 mg/kg
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 4000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 0,15 mg/l/4h
Reaction product: Bisphenol F-epichlorhydrine (9003-36-5)	
LD50 oral rat	17100 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation	: Causes skin irritation
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause sensitisation by skin contact
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Potential adverse human health effects and symptoms : Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Irritation of the respiratory tract and the other mucous membranes. Causes serious eye irritation. May be harmful in contact with skin. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
LC50 fish 1	> 5000 mg/l
EC50 Daphnia 1	7,2 mg/l
EC50 72h algae (1)	843,75 mg/l
Reaction product: Bisphenol F-epichlorohydrine (9003-36-5)	
LC50 fish 1	2,54 mg/l
EC50 Daphnia 1	2,55 mg/l
EC50 72h algae (1)	> 1000 mg/l

12.2. Persistence and degradability

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight 700) (25068-38-6)	
Persistence and degradability	Not readily biodegradable.
Reaction product: Bisphenol F-epichlorohydrine (9003-36-5)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight 700) (25068-38-6)	
Bioconcentration factor (BCF REACH)	31
Partition coefficient n-octanol/water (Log Pow)	3,242
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
Partition coefficient n-octanol/water (Log Pow)	6 at 20 °C
Reaction product: Bisphenol F-epichlorohydrine (9003-36-5)	
Partition coefficient n-octanol/water (Log Pow)	3,3

12.4. Mobility in soil

reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight 700) (25068-38-6)	
Mobility in soil	2,65
Surface tension	60 mN/m at 20 °C

12.5. Results of PBT and vPvB assessment

Hydroblocker 2K comp. A	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

Other adverse effects : No supplementary information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of this material and its container at hazardous or special waste collection point.

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Waste treatment methods	: Dispose of at a licensed waste collection centre. To be disposed of as hazardous waste. Dispose of waste according to applicable legislation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Remove to an authorized waste treatment plant. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

ADR	IMDG	IATA	RID
		Special provision(s) applied : A197	
14.1. UN number			
3082	3082	3082	3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Reaction product: bisphen-F-epichlorohydrin), 9, III, (E)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Reaction product: bisphen-F-epichlorohydrin), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Reaction product: bisphen-F-epichlorohydrin), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN); Reaction product: bisphen-F-epichlorohydrin), 9, III
14.3. Transport hazard class(es)			
9	9	9	9
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Limited quantities (ADR)	: 5I
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: E
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- Transport by sea

Limited quantities (IMDG)	: 5 L
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F

- Air transport

PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L

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CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197

- Rail transport

Limited quantities (RID) : 5L
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Hydroblocker 2K comp. A ; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700) ; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Hydroblocker 2K comp. A ; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Seveso Information : E2

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
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.	
EUH205	Contains epoxy constituents. May produce an allergic reaction.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

MSDS Reach Annex II DL-Chem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.