



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

ALBION CDG

Version 5.0

Print Date 2019/09/17

Revision date / valid from 2019/09/17

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

1.1. Product identifier

Trade name : ALBION CDG
Substance name : Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)
EU REACH-Reg. No. : 01-2119490100-53-xxxx

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited
Alpha House, Lawnswood Business Park
GB LS16 6QY Leeds
Telephone : +44 (0) 113 3879 200
Telefax : +44 (0) 113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
+44 (0) 1865 407333 (N.C.E.C. Culham)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Skin irritation	Category 2	---	H315
Serious eye damage	Category 1	---	H318

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Long-term (chronic) aquatic hazard

Category 2

H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 Wear protective gloves/ eye protection/ face protection.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P273 Avoid release to the environment.

Response : P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P391 Collect spillage.
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.

Disposal : P501 Dispose of contents/ container in accordance with the local/regional/international regulations.

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Hazardous components which must be listed on the label:

- Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

		Classification (REGULATION (EC) No 1272/2008)		
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements	
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)				
CAS-No.	: 68155-07-7	<= 100	Skin Irrit.2	H315
EC-No.	: 931-329-6		Eye Dam.1	H318
EU REACH-Reg. No.	: 01-2119490100-53-xxxx		Aquatic Chronic2	H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air. If symptoms call a physician. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position.
In case of skin contact	: Wash off immediately with plenty of water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Rinse mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, Carbon dioxide (CO ₂), Sand
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: None known.
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5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further advice	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not inhale explosion and combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.
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6.2. Environmental precautions

Environmental precautions	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.
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6.3. Methods and materials for containment and cleaning up

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Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Clean the area with plenty of water.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost. Keep away from direct sunlight.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Storage temperature : > 30 °C

Suitable packaging materials : Stainless steel, Plastics

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other Occupational Exposure Limit Values**

(Additional) : Contains no substances with occupational exposure limit values.
Information

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - systemic effects, Skin contact	:	4.16 mg/kg bw/day
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	73.4 mg/m3
DNEL		
Workers, Long-term - local effects, Skin contact	:	0.09 mg/cm2
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	2.5 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	21.73 mg/m3
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	6.25 mg/kg bw/day
DNEL		
Consumers, Long-term - local effects, Skin contact	:	0.056 mg/cm2

Predicted No Effect Concentration (PNEC)

Fresh water	:	0.0024 mg/l
Marine water	:	0.00024 mg/l
Intermittent releases	:	0.024 mg/l
Sewage treatment plant (STP)	:	0.83 mg/l
Soil	:	0.00648 mg/kg dry weight (d.w.)
Fresh water sediment	:	0.0145 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment*Respiratory protection*

Advice : Required, if exposure limit is exceeded (e.g. OEL).

Hand protection

Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.
The following materials are suitable:

Material : Protective gloves complying with EN 374.

Eye protection

Advice : Goggles giving complete protection to the eyes

Skin and body protection

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
If material reaches soil inform authorities responsible for such cases.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: no data available

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pH	: 9 - 11 5% solution
Melting point/range	: -7 °C
Boiling point	: no data available
Flash point	: > 188 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: 0.139 hPa (20 °C)
Relative vapour density	: no data available
Density	: 1.02 g/cm ³
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: 2,250 mPa.s (20 °C)
Explosivity	: no data available
Oxidizing properties	: no data available

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice : Stable under recommended storage conditions.
Decomposes by reaction with strong acids.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

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Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : > 30 °C

10.5. Incompatible materials

Materials to avoid : Avoid strong acids and materials which react with water.

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
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Acute toxicity

Oral

LC₅₀ : > 2000 mg/kg (Rat) (OECD Test Guideline 401)

Inhalation

no data available

Dermal

LD₅₀ : > 2000 mg/kg (Rabbit) (No guideline followed)

Irritation

Skin

Result : Irritating to skin. (Rabbit) (OECD Test Guideline 404)

Eyes

Result : Risk of serious damage to eyes. (Rabbit) (OECD - Guideline 405)

Sensitisation

Result : Does not cause skin sensitisation. (Guinea pig) (OECD Test

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Guideline 406)

CMR effects

CMR Properties

Carcinogenicity : It is not considered carcinogenic.
Mutagenicity : It is not considered mutagenic.
Teratogenicity : no data available
Reproductive toxicity : It is not considered toxic for reproduction.

Genotoxicity in vivo

Result : negative (In vivo micronucleus test; Mammalian-Animal) (OECD Test Guideline 474)

Teratogenicity

NOAEL : > 1,000 mg/kg
Maternal (Rat)(Oral)(OECD Test Guideline 414)

Specific Target Organ Toxicity

Single exposure

Remarks : no data available

Repeated exposure

Remarks : no data available

Other toxic properties

Repeated dose toxicity

NOAEL : 750 mg/kg
(Rat, wistar, male and female)(Oral; 28-day; 5 days/week) (OECD Test Guideline 407) Subacute toxicity
NOAEL : 50 mg/kg
(Rat, Fischer F344, male and female)(Dermal; 90-day; 5 days/week) (No guideline available) Subchronic toxicity

Aspiration hazard

no data available,

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SECTION 12: Ecological information

12.1. Toxicity

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
Acute toxicity		
Fish		
LC50	:	2.4 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (semi-static test; OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	3.2 mg/l (Daphnia magna (Water flea); 48 h) (static test; OECD Test Guideline 202)
algae		
ErC50	:	18.6 mg/l (Desmodesmus subspicatus (green algae); 24 h) (static test; End point: Growth rate; Directive 67/548/EEC, Annex V, C.3.)
EbC50	:	23.4 mg/l (Desmodesmus subspicatus (green algae); 72 h) (static test; End point: Biomass; Directive 67/548/EEC, Annex V, C.3.)
Bacteria		
EC50	:	6000 mg/l (Pseudomonas putida; 16 h) (static test; End point: Growth rate; DIN 38412)

12.2. Persistence and degradability

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
Persistence and degradability		
Persistence		
Result	: (Related to: Air) Half-life in air < 1 day	
Biodegradability		
Result	: 71.1 % (Exposure Time: 28 d)(OECD Test Guideline 301F)Readily biodegradable.	

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Result : 76 % (TOD (OECD 301D))

12.3. Bioaccumulative potential

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
Bioaccumulation		

Result : BCF: 65.36 The product has low potential bioaccumulation.

12.4. Mobility in soil

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
Mobility		

: no data available

12.5. Results of PBT and vPvB assessment

Component:	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	CAS-No. 68155-07-7
Results of PBT and vPvB assessment		

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Data for the product		
Additional ecological information		

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

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- : Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number

|| 3082

14.2. UN proper shipping name

- || ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl))
- || RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl))
- || IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl))

14.3. Transport hazard class(es)

- || ADR-Class : 9
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)
- 9; M6; 90; (-)
- || RID-Class : 9
(Labels; Classification Code; Hazard identification No)
- 9; M6; 90
- || IMDG-Class : 9
(Labels; EmS)
- 9; F-A, S-F

14.4. Packaging group

- || ADR : III
- || RID : III
- || IMDG : III

14.5. Environmental hazards

- || Environmentally hazardous according to ADR : yes

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Environmentally hazardous according to RID	: yes
Marine Pollutant according to IMDG-Code	: yes

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

no data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level

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NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	<p>The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.</p> <p>The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>

|| Indicates updated section.