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

ACETIC ACID 50 <= 80 %

Version 7.1

Print Date 2018/09/12

Revision date / valid from 2018/09/12

MSDS code: MACA080

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

1.1. Product identifier

Trade name	ACETIC ACID 50 <= 80 %
Substance name	acetic acid
Index-No.	607-002-00-6
CAS-No.	64-19-7
EC-No.	200-580-7
EU REACH-Reg. No.	01-2119475328-30-xxxx

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

Use of the Substance/Mixture	Identified use: See table in front of appendix for a complete overview of identified uses.
Uses advised against	At this moment we have not identified any uses advised against
Remarks	Before referring to any Exposure Scenario attached to this Safety Data Sheet please check the grade of the product: the Exposure Scenarios presented are not related to the product grade

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)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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Hazard class	Hazard category	Target Organs	Hazard statements
Skin corrosion	Category 1B		H314

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	H314	Causes severe skin burns and eye damage.
Precautionary statements		
Prevention	P260 P280	Do not breathe mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	

Hazardous components which must be listed on the label:

- acetic acid

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2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components		Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
			Hazard class / Hazard category	Hazard statements
acetic acid				
Index-No.	607-002-00-6	>= 50 - <= 80	Flam. Liq.3	H226
CAS-No.	64-19-7		Skin Corr. 1A	H314
EC-No.	200-580-7			
EU REACH-	01-2119475328-30-xxxx			
Reg. No.				

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	: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact	: Wash off immediately with soap and plenty of water. Call a physician immediately.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

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	: Extremely corrosive and destructive to tissue. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section

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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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	Strong heating may produce combustible vapours which can form explosive mixture with air.
Hazardous combustion products	Carbon monoxide, Carbon dioxide (CO ₂), The formation of caustic fumes is possible.

5.3. Advice for firefighters

Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
Specific extinguishing methods	Control smoke with water spray.
Further advice	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the 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.
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6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.
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Further information	Treat recovered material as described in the section "Disposal
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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. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. 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	Store in original container.
Advice on protection against fire and explosion	Normal measures for preventive fire protection. Possible formation of ignitable mixtures in air if heated above flash point and/or if sprayed (atomised).
Further information on storage conditions	Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.
Advice on common storage	Keep away from food, drink and animal feedingstuffs.
Suitable packaging materials	Stainless steel, Polyethylene, Polypropylene
Unsuitable packaging materials	, Iron, copper, Brass, Zinc

7.3. Specific end use(s)

Specific use(s)	Identified use: See table in front of appendix for a complete overview of identified uses.
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SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL	
Workers, Long-term - local effects, Inhalation	25 mg/m3
DNEL	
Workers, Acute - local effects, Inhalation	25 mg/m3
DNEL	
Consumers, Long-term - local effects, Inhalation	25 mg/m3
DNEL	
Consumers, Acute - local effects, Inhalation	25 mg/m3

Predicted No Effect Concentration (PNEC)

Fresh water	3.058 mg/l
Marine water	0.306 mg/l
Intermittent releases	30.58 mg/l
Sewage treatment plant (STP)	85 mg/l
Fresh water sediment	11.36 mg/kg d.w.
Marine sediment	1.136 mg/kg d.w.
Soil	0.47 mg/kg d.w.

Other Occupational Exposure Limit Values

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, Time Weighted Average (TWA):

10 ppm, 25 mg/m3

Indicative

ELV (IE), Short Term Exposure Limit (STEL):

15 ppm, 37 mg/m3

Indicative OELV

8.2. Exposure controls

Appropriate engineering controls

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Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice	In case of brief exposure or low pollution use breathing filter apparatus. Respiratory protection complying with EN 141. Recommended Filter type:A Recommended Filter type:E In case of intensive or longer exposure use self-contained breathing apparatus.
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Hand protection

Advice	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.
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Material	Natural Rubber
Break through time	>= 8 h
Glove thickness	0.5 mm

Material	polychloroprene
Break through time	>= 8 h
Glove thickness	0.5 mm

Material	butyl-rubber
Break through time	>= 8 h
Glove thickness	0.5 mm

Material	Fluorinated rubber
Break through time	>= 8 h
Glove thickness	0.4 mm

Material	Polyvinylchloride
Break through time	>= 8 h
Glove thickness	0.5 mm

Eye protection

Advice	Safety goggles Face-shield
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Skin and body protection

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Advice	Impervious clothing Chemical resistant apron
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Environmental exposure controls

General advice	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	colourless clear
Odour	vinegar-like
Odour Threshold	no data available
pH	< 2
Freezing point/range	> -27 - -7 °C
Boiling point/boiling range	102 - 118 °C
Flash point	> 60 °C
Evaporation rate	no data available
Flammability (solid, gas)	Not applicable
Upper explosion limit	19.9 %(V) (referring to pure substance)
Lower explosion limit	4.0 %(V) (referring to pure substance)
Vapour pressure	no data available
Relative vapour density	no data available
Density	1.06 - 1.07 g/cm3
Water solubility	soluble
Partition coefficient: n-octanol/water	log Kow -0.17 (25 °C; pH 7)
Auto-ignition temperature	463 °C
Thermal decomposition	no data available

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Viscosity, dynamic	no data available
Explosivity	Product is not explosive.
Oxidizing properties	not oxidising

9.2. Other information

No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Advice No decomposition if used as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Corrosive in contact with metals

10.4. Conditions to avoid

Conditions to avoid Heat

10.5. Incompatible materials

Materials to avoid : Bases, Strong oxidizing agents, Alcohols, Nitric acid

10.6. Hazardous decomposition products

Hazardous decomposition products : Under fire conditions: Carbon monoxide, Carbon dioxide (CO₂)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Oral	
LD50	3310 mg/kg (Rat)
Inhalation	
LC50	> 40 mg/l (Rat; 4 h)

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Dermal	
Study scientifically not justified.	
Irritation	
Skin	
Result	Very corrosive (Rabbit) (OECD Test Guideline 404)
Eyes	
Result	corrosive effects (Rabbit) (OECD - Guideline 405)May cause corneal damage. Risk of serious damage to eyes.
Sensitisation	
Result	Did not cause sensitisation on laboratory animals.
CMR effects	
CMR Properties	
Carcinogenicity	Animal testing did not show any carcinogenic effects.
Mutagenicity	In vivo tests did not show mutagenic effects In vitro tests did not show mutagenic effects
Teratogenicity	Results from animal studies prove that this material is not teratogenic for non-toxic doses for the mother animal and is not toxic for embryonic or fetal development.
Genotoxicity in vitro	
Result	negative (In vitro gene mutation study in mammalian cells; Test substance: Acetic anhydride) (OECD Test Guideline 476) negative (In vitro gene mutation study in mammalian cells) (OECD Test Guideline 473) negative (In vitro gene mutation study in non-mammalian cells) (OECD Test Guideline 471)
Genotoxicity in vivo	
Result	negative (in vivo assay) (Test substance: Acetic anhydride) (OECD Test Guideline 474)
Teratogenicity	

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(Rabbit)(5 %; 13 d)(Directive 67/548/EEC, Annex V, B.31.)negative
(Rat)(5 %; 10 d)(Directive 67/548/EEC, Annex V, B.31.)negative
(Mouse)(5 %; 10 d)(Directive 67/548/EEC, Annex V, B.31.)negative

Specific Target Organ Toxicity

Single exposure

Remarks	The substance or mixture is not classified as specific target organ toxicant, single exposure.
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Repeated exposure

Remarks	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
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Other toxic properties

Aspiration hazard

Not applicable,

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Fish

LC50	75 mg/l (Lepomis macrochirus; 96 h)
LC50	88 mg/l (Pimephales promelas; 96 h)
LC50	> 300.82 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EC50	> 300.82 mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202)
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algae

EC50	> 300.82 mg/l (Skeletonema costatum (marine diatom); 72 h)
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Bacteria	
EC10	1000 mg/l (Pseudomonas putida; 0.5 h)

12.2. Persistence and degradability

Persistence	
Result	no data available

Biodegradability	
Result	95 % (Exposure Time: 5 d)Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation	
Result	log Kow -0.17 (25 °C; pH 7) BCF: 3.16 Does not bioaccumulate.

12.4. Mobility in soil

Water	The product is water soluble., The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
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12.5. 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).
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12.6. Other adverse effects

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Additional ecological information

Result	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Harmful effects to aquatic organisms due to pH-shift.
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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.
Contaminated packaging	Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
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

2790

14.2. UN proper shipping name

ADR	: ACETIC ACID SOLUTION
RID	: ACETIC ACID SOLUTION
IMDG	: ACETIC ACID SOLUTION

14.3. Transport hazard class(es)

ADR-Class	: 8
(Labels; Classification Code; Hazard identification No; Tunnel restriction code)	8; C3; 80; (E)
RID-Class	8
(Labels; Classification Code; Hazard identification No)	8; C3; 80
IMDG-Class	: 8
(Labels; EmS)	8; F-A, S-B

14.4. Packaging group

ADR	: II
RID	II

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IMDG II

14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	no
Marine Pollutant according to IMDG-Code	no

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

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)	Point Nos.: , 3; Listed
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EU. Directive 2012/18/EU (SEVESO III) Annex I	; The substance/mixture does not fall under this legislation.
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EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals	; The substance/mixture does not fall under this legislation.
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EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)	Point Nos.: , 3; Listed
	Point Nos.: , 40; Listed

EU. Regulation 528/2012/EU concerning the making available on the market and use of	EC Number: , 200-580-7; Category 1 - Substances authorised as food additives according to Regulation (EC) No 1333/2008; Concentration to be limited so that each biocidal product does not require classification according to either Directive
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biocidal products, Annex
I: Active substances

1999/45/EC or Regulation (EC) No 1272/2008.

EU. Regulation No
1451/2007 [Biocides],
Annex I, OJ (L 325)

EC Number: , 200-580-7; Listed

EU. Directive
2012/18/EU (SEVESO
III) Annex I

Lower-tier requirements: 5,000 tonnes; Part 1: Categories of dangerous substances; P5c: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Upper-tier requirements: 50,000 tonnes; Part 1: Categories of dangerous substances; P5c: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b, The information given is valid if the product is stored below the boiling point and at a pressure of 1013 hPa.

Notification status acetic acid:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-580-7
ENCS (JP)	YES	(2)-688
IECSC	YES	
ISHL (JP)	YES	(2)-688
JEX (JP)	YES	(2)-688
KECI (KR)	YES	KE-00013
NZIOC	YES	HSR000975
NZIOC	YES	HSR001580
NZIOC	YES	HSR001581
NZIOC	YES	HSR001582
PICCS (PH)	YES	
TSCA	YES	

15.2. Chemical safety assessment

no data available

SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.

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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
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

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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

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.

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.

|| Indicates updated section.