

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**pH REDUCER (DRY ACID)**

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name : pH REDUCER (DRY ACID)
Index-No. : 016-046-00-X
CAS-No. : 7681-38-1
EC-No. : 231-665-7

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.

Recommended restrictions on use : At that time we do not yet have information on use restrictions. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland
Albion House, Rawdon Park
GB LS19 7XX Leeds Yeadon
Telephone : 0113 3879 200
Telefax : 0113 3879 280
E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
01865 407333 (N.C.E.C. Culham)

2. Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

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

pH REDUCER (DRY ACID)

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

Hazard class	Hazard category	Target Organs	Hazard statements
Serious eye damage/eye irritation	Category 1		H318

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Irritant (Xi)	R41

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

- Human Health : See section 11 for toxicological information.
No further information available.
- Physical and chemical hazards : See section 9 for physicochemical information.
No further information available.
- Potential environmental effects : See section 12 for environmental information.
No further information available.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

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

pH REDUCER (DRY ACID)

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

Precautionary statements

General : P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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 or doctor/ physician.

Hazardous components which must be listed on the label:

|| • sodium hydrogensulphate

2.3. Other hazards

No other information is available.

3. Composition/information on ingredients

3.1. Substances

Chemical Name	Identification Number	Amount [%]
sodium hydrogensulphate	Index-No. : 016-046-00-X	>= 98 - <= 100
	CAS-No. : 7681-38-1	
	EC-No. : 231-665-7	

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.

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

pH REDUCER (DRY ACID)

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

In case of skin contact : Wash off immediately with soap and plenty of water.

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 : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No further information available.

Effects : No further information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
No further information available.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Incomplete combustion may form toxic pyrolysis products.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006***pH REDUCER (DRY ACID)**

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

must not be discharged into drains.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Avoid contact with skin and eyes. For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

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

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage**7.1 Precautions for safe handling**

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**pH REDUCER (DRY ACID)**Version 2.1
Revision Date 2010/12/29Print Date 2010/12/29
MSDS code: MAAD108

Advice on safe handling : Keep container tightly closed. Avoid contact with skin, eyes and clothing. 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. Provide adequate ventilation. Avoid contact with the skin and the eyes.

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.

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

7.3 Specific end uses

Specific use(s) : No information available.

8. Exposure controls/personal protection**8.1. Control parameters****Other OELs**

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

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

pH REDUCER (DRY ACID)Version 2.1
Revision Date 2010/12/29Print Date 2010/12/29
MSDS code: MAAD108

Information

8.2. Exposure controls**Engineering measures**

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:
PVC gloves
Rubber gloves*Eye protection*

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

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

Form : solid

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

pH REDUCER (DRY ACID)

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

Colour	: white
Odour	: characteristic
Odour Threshold	: Currently we do not have any Information from our supplier about this.
pH	: 0.5 120 g/l
Freezing point	: Currently we do not have any Information from our supplier about this.
Boiling point	: Currently we do not have any Information from our supplier about this.
Flash point	: Currently we do not have any Information from our supplier about this.
Evaporation rate	: Currently we do not have any Information from our supplier about this.
Flammability (solid, gas)	: Currently we do not have any Information from our supplier about this.
Upper explosion limit	: Currently we do not have any Information from our supplier about this.
Lower explosion limit	: Currently we do not have any Information from our supplier about this.
Vapour pressure	: Currently we do not have any Information from our supplier about this.
Relative vapour density	: Currently we do not have any Information from our supplier about this.
Relative density	: Currently we do not have any Information from our supplier about this.
Water solubility	: hydrolyses
Partition coefficient: n-octanol/water	: Currently we do not have any Information from our supplier about this.
Ignition temperature	: Currently we do not have any Information from our supplier about this.
Thermal decomposition	: Currently we do not have any Information from our supplier about this.
Viscosity, kinematic	: Currently we do not have any Information from our supplier about this.
Explosivity	: Currently we do not have any Information from our supplier about this.
Oxidizing properties	: Currently we do not have any Information from our supplier about this.

9.2 Other information

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**pH REDUCER (DRY ACID)**Version 2.1
Revision Date 2010/12/29Print Date 2010/12/29
MSDS code: MAAD108

No further information available.

10. Stability and reactivity**10.1. Reactivity**

Advice : No information available.

10.2. Chemical stability

Advice : Stable

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoidConditions to avoid : Avoid high temperatures.
Exposure to moisture.**10.5. Incompatible materials**Materials to avoid : Strong bases
Oxidizing agents
bleaching agent
Chlorates
nitrates**10.6. Hazardous decomposition products**Hazardous decomposition products : Sulphur oxides
Heating may cause toxic fumes**11. Toxicological information****11.1. Information on toxicological effects****Product: pH REDUCER (DRY ACID)****CAS-No.
7681-38-1****Irritation**

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

pH REDUCER (DRY ACID)

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

Eyes

Result : Risk of serious damage to eyes.

Sensitisation

Remarks : No sensitizing effect known.

12. Ecological information

12.1. Toxicity

Product: pH REDUCER (DRY ACID)

CAS-No.
7681-38-1

Acute toxicity

Acute aquatic toxicity

Remarks : This product has no known eco-toxicological effects.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Product: pH REDUCER (DRY ACID)

CAS-No.
7681-38-1

Additional ecological information

Remarks : Do not flush into surface water or sanitary sewer system.

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006***pH REDUCER (DRY ACID)**

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

Avoid subsoil penetration.

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. 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.

14. Transport information

Not dangerous goods

14.1. UN number

|| Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**pH REDUCER (DRY ACID)**

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

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.

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical Safety Assessment**

Currently we do not have any Information from our supplier about this.

16. Other information**Full text of R-phrases referred to under sections 2 and 3.**

R41 Risk of serious damage to eyes.

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

H318 Causes serious eye damage.

Further information

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.

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

pH REDUCER (DRY ACID)

Version 2.1
Revision Date 2010/12/29

Print Date 2010/12/29
MSDS code: MAAD108

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.