# **Brenntag UK & Ireland**



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

# PICKLE HF ACID/NITRIC ACID

Version 1.0 Print Date 2013/11/22

Revision date / valid from 2013/11/22 MSDS code: MAAF522

# Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : PICKLE HF ACID/NITRIC ACID

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

Use of the : At this time we do not yet have information on identified uses. Substance/Mixture : 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 & Ireland

Albion House, Rawdon Park GB LS19 7XX Leeds Yeadon

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 : Emergency only telephone number (open 24 hours):

number +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

F	REGULATION (EC) N	lo 1272/2008	
Hazard class	Hazard category	Target Organs	Hazard statements
Acute toxicity (Oral)	Category 3		H301
Acute toxicity (Inhalation)	Category 3		H331
Acute toxicity (Dermal)	Category 3		H311
Skin corrosion	Category 1A		H314

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		
Toxic (T)Toxic (T)	R23/24/25		
Corrosive (C)Corrosive (C)	R35		

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.

Physical and chemical

hazards

Potential environmental

effects

See section 9 for physicochemical information.

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.

H301 + H311 + H331 Toxic if swallowed, in contact with skin

or if inhaled

Precautionary statements

Prevention : P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response : P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER or doctor/ physician.

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.

P310 Immediately call a POISON CENTER or

doctor/ physician.

P361 Remove/Take off immediately all



contaminated clothing.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam for extinction.

Storage : P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

# Hazardous components which must be listed on the label:

· nitric acid

· hydrofluoric acid

#### 2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

# Section 3: Composition/information on ingredients

#### 3.2. Mixtures

Haza	ordous components	Amount [%]	Classifi (REGULATION (Ed Hazard class / Hazard category		Classification (67/548/EEC)
nitric acid Index-No. CAS-No. EC-No.	: 007-004-00-1 : 7697-37-2 : 231-714-2	>= 50 - < 65	Ox. Liq.3 Skin Corr.1A	H272 H314	Oxidising; O; R 8 Corrosive; C; R35
hydrofluoric	acid : 009-003-00-1		Acute Tox.2	H330	Vary toxic: Tu
CAS-No.	: 7664-39-3		Acute Tox.1	H310	Very toxic; T+; R26/27/28
EC-No. Registration	: 231-634-8 : 01-2119458860-33-xxxx	>= 1 - <= 6.9	Acute Tox.2 Skin Corr.1A	H300 H314	Corrosive; C; R35

For the full text of the R-phrases mentioned in this Section, see Section 16. 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 : First aider needs to protect himself. Remove from exposure, lie

down. Take off all contaminated clothing immediately.

If inhaled : Remove to fresh air. If breathing is irregular or stopped,

administer artificial respiration. Oxygen, if needed. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable



instruments/apparatus. 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. Keep patient warm and at rest. Do NOT induce vomiting. Call a physician immediately. If a person vomits when lying on his

back, place him in the recovery position.

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.

#### Section 5: Firefighting measures

# 5.1. Extinguishing media

Suitable extinguishing

media

9

Unsuitable extinguishing

media

: Alcohol-resistant foam, Carbon dioxide (CO2)

High volume water jet

# 5.2. Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Toxic gases, Under fire conditions: Carbon monoxide, Carbon

dioxide (CO2), 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)

Further information : 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.

#### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

R65335 / Version 1.0 4/13 EN



: Use personal protective equipment. Keep people away from Personal precautions

and upwind of spill/leak. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Wear respiratory

protection.

#### 6.2. **Environmental precautions**

Environmental precautions

: Should not be released into the environment. If material reaches soil inform authorities responsible for such cases. If the product contaminates rivers and lakes or drains inform

#### 6.3. Methods and materials for containment and cleaning up

containment and cleaning

up

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

: Use mechanical handling equipment. Keep in suitable, closed

containers for disposal.

respective authorities.

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

considerations".

#### 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. Use product only in closed system. Avoid contact with the skin and the eyes. 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. Keep working clothes

separately.

# 7.2. Conditions for safe storage, including any incompatibilities

areas and containers

Requirements for storage : Store in a place accessible by authorized persons only. Keep

only in the original container.

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

R65335 / Version 1.0 5/13 ΕN

# **Brenntag UK & Ireland**



# PICKLE HF ACID/NITRIC ACID

Further information on

storage conditions

: Keep tightly closed in a dry and cool place. Keep away from

heat. Keep in a well-ventilated place.

Advice on common

storage

: Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

> Specific use(s) : No information available.

# Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Component:** nitric acid CAS-No.

7697-37-2

#### **Other Occupational Exposure Limit Values**

EU ELV, Short Term Exposure Limit (STEL):

1 ppm, 2.6 mg/m3

Indicative

EH40 WEL, Short Term Exposure Limit (STEL):

1 ppm, 2.6 mg/m3

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

1 ppm, 2.6 mg/m3

Indicative OELV

CAS-No. Component: hydrofluoric acid

7664-39-3

# **Other Occupational Exposure Limit Values**

EU ELV, Time Weighted Average (TWA):

1.8 ppm, 1.5 mg/m3

Indicative

EU ELV, Short Term Exposure Limit (STEL):

3 ppm, 2.5 mg/m3

Indicative

EH40 WEL, Time Weighted Average (TWA):, as F

1.8 ppm, 1.5 mg/m3

EH40 WEL, Short Term Exposure Limit (STEL):, as F

3 ppm, 2.5 mg/m3



ELV (IE), Short Term Exposure Limit (STEL):as F 3 ppm, 2.5 mg/m3 Indicative OELV

ELV (IE), Skin designation:as F Can be absorbed through the skin.

ELV (IE), Time Weighted Average (TWA):, as F 1.8 ppm, 1.5 mg/m3 Indicative OELV

#### 8.2. Exposure controls

#### Appropriate engineering controls

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.

Recommended Filter type:A

In case of intensive or longer exposure use self-contained

breathing apparatus.

Hand protection

Advice : Wear suitable gloves.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation.

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 : PVC

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : impervious clothing

Chemical resistant apron

# **Environmental exposure controls**

General advice : Should not be released into the environment.

If material reaches soil inform authorities responsible for such

cases.

If the product contaminates rivers and lakes or drains inform



respective authorities.

# Section 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Form : Liquid

Colour : clear

straw

Odour : no data available

Odour Threshold : no data available

pH : <1

Freezing point : no data available

Boiling point : no data available

Flash point : no data available

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 : no data available

Relative vapour density : no data available

Relative density : 1.1 - 1.12

Water solubility : soluble

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Explosivity : no data available

Oxidizing properties : no data available

#### 9.2. Other information

# **Brenntag UK & Ireland**



# PICKLE HF ACID/NITRIC ACID

No further information available.

# Section 10: Stability and reactivity

10.1. Reactivity

Advice : Stable under recommended storage conditions.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Strong bases, Metals

10.6. Hazardous decomposition products

Hazardous decomposition : No information available.

products

# **Section 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity			
Oral			
Acute toxicity estimate	: 72.47 mg/kg ) (Calculation method)		
	Inhalation		
Acute toxicity estimate	: 1449 ppm (gas) (Calculation method)		
	Dermal		
Acute toxicity estimate	: 72.46 mg/kg ) (Calculation method)		
	Irritation		
	Skin		
Result	: Causes severe burns.		
R65335 / Version 1.0	9/13	E	



**Eyes** 

Result : Causes serious eye damage.

Sensitisation

no data available

**CMR** effects

**CMR Properties** 

Carcinogenicity : No evidence of carcinogenic effects.

Mutagenicity : No evidence of mutagenic effects.

Teratogenicity : It is not considered teratogenic.

Reproductive toxicity : no data available

**Specific Target Organ Toxicity** 

Single exposure

no data available

Repeated exposure

no data available

Other toxic properties

Repeated dose toxicity

no data available

**Aspiration hazard** 

no data available

**Further information** 

Other relevant toxicity information

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

**Section 12: Ecological information** 

12.1. Toxicity

R65335 / Version 1.0 10/13 EN



- 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

# **Additional ecological information**

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

Avoid subsoil penetration.

Danger to drinking water if even extremely small quantities leak

into soil.

Harmful effects to aquatic organisms due to pH-shift.

#### **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 remaining contents. Packagings that cannot be

cleaned are to be disposed of in the same manner as the product. Dispose of in accordance 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

2922

#### 14.2. UN proper shipping name

ADR : CORROSIVE LIQUID, TOXIC, N.O.S.

(Nitric acid, Hydrofluoric acid)

RID : CORROSIVE LIQUID, TOXIC, N.O.S.

(Nitric acid, Hydrofluoric acid)

IMDG : CORROSIVE LIQUID, TOXIC, N.O.S.

(Nitric acid, Hydrofluoric acid)

R65335 / Version 1.0 11/13 EN



#### 14.3. Transport hazard class(es)

ADR-Class : 8

(Labels; Classification Code; Hazard 8, 6.1; CT1; 86; (E)

identification No; Tunnel restriction code)

RID-Class : 8

(Labels; Classification Code; Hazard 8, 6.1; CT1; 86

identification No)

IMDG-Class :

(Labels; EmS) 8, 6.1; F-A, S-B

# 14.4. Packaging group

ADR : II RID : II IMDG : II

#### 14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no Labeling according to 5.2.1.8 RID : no Labeling according to 5.2.1.6.3 IMDG : no Classification as environmentally : no hazardous according to 2.9.3 IMDG

\_

# 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

Other regulations : Occupational restrictions: Take note of Dir 92/85/EEC on the

safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

#### 15.2. Chemical Safety Assessment

no data available

# **Section 16: Other information**



#### Full text of R-phrases referred to under sections 2 and 3.

R 8 Contact with combustible material may cause fire.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R35 Causes severe burns.

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

H272	May intensify fire; oxidiser.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.

Toxic if inhaled.

# Further information

H331

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.