SAFETY DATA SHEET Coil Foam

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

1.1. Product identifier

Product name Coil Foam
Product number AER-F-600

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

Identified uses Condensor Cleaner PC35 Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

Supplier Pump House

Glaisdale Drive East

Nottingham NG8 4LY

Tel: +44 (0)115 900 5858 www.pumph.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)115 900 5858

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

Human health Gas or vapour is harmful on prolonged exposure or in high concentrations. In high

concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this

container is dangerous and can be fatal.

Environmental This product does not contain substances which are harmful to aquatic organisms or which

may cause long term effects to the aquatic environment

Physicochemical Aerosol containers can explode when heated, due to excessive pressure build-up. The

product is extremely flammable. When sprayed on a naked flame or any incandescent

material the aerosol vapours can be ignited.

2.2. Label elements

Pictogram





Signal word Danger

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Coil Foam

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P102 Keep out of reach of children.

P501 Dispose of contents/ container in accordance with local regulations. P308+P313 IF exposed or concerned: Get medical advice/ attention.

P260 Do not breathe vapour/ spray.

P262 Do not get in eyes, on skin, or on clothing. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective clothing, gloves, eye and face protection.

Contains SODIUM HYDROXIDE

Detergent labelling 5 - < 15% aliphatic hydrocarbons, < 5% non-ionic surfactants

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

1-METHOXY-2-PROPANOL 5-10%

CAS number: 107-98-2 EC number: 203-539-1 REACH registration number: 01-

2119457435-35

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H312 STOT SE 3 - H336

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

5-10%

Classification

Flam. Gas 1 - H220 Press. Gas (Liq.) - H280

SODIUM HYDROXIDE 1-5%

CAS number: 1310-73-2 EC number: 215-185-5 REACH registration number: 01-

2119457892-27

Classification

Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318

Coil Foam

3-BUTOXYPROPAN-2-OL 1-5%

CAS number: 5131-66-8 EC number: 225-878-4 REACH registration number: 01-

2119475527-28

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Sodium Lauroyl Sarcosinate >29.5% soln

1-5%

CAS number: — REACH registration number: 01-

2119527780-39

Classification

Acute Tox. 4 - H332 Eye Irrit. 2 - H319

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Move affected person to fresh air at once.

Inhalation If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention

immediately.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes and get medical attention.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and

may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-

up.

5.3. Advice for firefighters

Coil Foam

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

Warn firefighters that aerosols are involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate.

Avoid inhalation of vapours.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with

sand, earth or other suitable non-combustible material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near

spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter

confined spaces, due to the risk of explosion.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Keep away from heat, sparks and open

flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent

material.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 375 mg/m3(Sk) Short-term exposure limit (15-minute): WEL 150 ppm(Sk) 560 mg/m3(Sk)

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³ Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

3-BUTOXYPROPAN-2-OL

Long-term exposure limit (8-hour TWA): No std.

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

Coil Foam

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

DNEL Industry - Inhalation; Short term local effects: 553.5 mg/m³

> Industry - Dermal; Long term systemic effects: 369 mg/m³ Industry - Inhalation; Long term systemic effects: 369 mg/m³ Consumer - Dermal; Long term systemic effects: 18.1 mg/kg/day Consumer - Inhalation; Long term systemic effects: 43.9 mg/m³ Consumer - Oral; Long term systemic effects: 3.3 mg/kg/day

PNEC - Fresh water; 10 mg/l

> - Marine water; 1 mg/l - STP; 100 mg/l

- Sediment (Freshwater); 41.6 mg/kg - Sediment (Marinewater); 4.17 mg/l

- Soil; 2.47 mg/kg

- Intermittent release; 100 mg/l

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Consumer - Inhalation; Long term local effects: 1 mg/m3

Industry - Inhalation; Long term local effects: 1 mg/m3

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any

occupational exposure limits for the product or ingredients.

Personal protection When using do not smoke.

Eye/face protection Wear chemical splash goggles.

Hand protection Wear protective gloves.

Hygiene measures Wash hands after handling. Wash promptly if skin becomes contaminated. Wash at the end of

each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to

prevent drying of skin.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Aerosol. Colour White.

Odour Organic solvents.

Initial boiling point and range -40 to -2°C @ 1013 hPa

<-40°C Flash point

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.8% Upper flammable/explosive limit: 9.5%

ca. 590 to 1760 kPa @ 45°C Vapour pressure

Vapour density ca. 1.5 at 15°C

Auto-ignition temperature 410-580°C

Comments Information given is applicable to the major ingredient.

Coil Foam

9.2. Other information

Other information Not available.

Volatile organic compound This product contains a maximum VOC content of 147 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability Avoid the following conditions: Heat, sparks, flames.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high

temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising materials, heat and flames.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or

vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - dermal

ATE dermal (mg/kg) 28,169.01

Acute toxicity - inhalation

ATE inhalation (dusts/mists

mg/l)

78.95

General information Deliberately concentrating and inhaling the contents of this container is dangerous and can be

fatal.

In high concentrations, vapours and aerosol mists have a narcotic effect and may cause

headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

Ingestion Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal

tract.

Skin contact Causes burns.

Eye contact May cause chemical eye burns.

Acute and chronic health

hazards

Arrhythmia (deviation from normal heart beat). Causes burns. In high concentrations, vapours

and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and

nausea.

Route of exposure Inhalation

Coil Foam

Target organs Central nervous system Respiratory system, lungs

Medical symptoms Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause

drowsiness and dizziness.

Toxicological information on ingredients.

1-METHOXY-2-PROPANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 4,016.0

mg/kg) Species

Rat

ATE oral (mg/kg) 4,016.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,000.0

SODIUM HYDROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2,000.0

Species Rat

Skin corrosion/irritation

Animal data Dose: , , Rabbit Corrosive.

Serious eye damage/irritation

Serious eye

damage/irritation

Causes serious eye damage. Rabbit

Inhalation Vapours may irritate throat/respiratory system. Symptoms following overexposure

may include the following: Coughing.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Prolonged and frequent contact may cause redness and irritation. Causes burns.

Eye contact Severe irritation, burning and tearing. Causes burns.

3-BUTOXYPROPAN-2-OL

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,100.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 3,100.0

Coil Foam

Sodium Lauroyl Sarcosinate >29.5% soln

Acute toxicity - inhalation

Acute toxicity inhalation

0.1

(LC₅₀ dust/mist mg/l)

Species Rat

ATE inhalation 1.5

(dusts/mists mg/l)

SECTION 12: Ecological Information

EcotoxicityNo negative effects on the aquatic environment are known. The product is not expected to be

toxic to aquatic organisms.

Ecological information on ingredients.

SODIUM HYDROXIDE

Ecotoxicity The product components are not classified as environmentally hazardous.

However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Not available.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Toxicity Not available.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 6812 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >21100 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 7 days: >1000 mg/l, Scenedesmus subspicatus

Acute toxicity -

microorganisms

EC₅₀, 3 hours: >1000 mg/l, Activated sludge

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 55.6 mg/l, Fish

LC₅₀, 48 hours: 99 mg/l, Lepomis macrochirus (Bluegill) LC₅₀, 24 hours: 145 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 156 mg/l, Daphnia magna

3-BUTOXYPROPAN-2-OL

Toxicity Not available.

12.2. Persistence and degradability

Coil Foam

Persistence and degradability Not available.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Persistence and degradability

Not available.

Biodegradation

- Degradation 96%: 28 days

SODIUM HYDROXIDE

Persistence and degradability

The product is expected to be biodegradable.

3-BUTOXYPROPAN-2-OL

Persistence and degradability

Not available.

12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Bioaccumulative potential Not available.

Partition coefficient log Kow: -0.43

SODIUM HYDROXIDE

Bioaccumulative potential No data available on bioaccumulation.

3-BUTOXYPROPAN-2-OL

Bioaccumulative potential Not available.

12.4. Mobility in soil

Mobility Not known.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Mobility Not known.

Henry's law constant $\sim 0.0000014 \text{ atm m}^3/\text{mol } @ ^{\circ}\text{C}$

SODIUM HYDROXIDE

Mobility The product is soluble in water.

3-BUTOXYPROPAN-2-OL

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Coil Foam

Results of PBT and vPvB

Not available.

assessment

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Results of PBT and vPvB

Not available.

Not available.

assessment

SODIUM HYDROXIDE

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

3-BUTOXYPROPAN-2-OL

Results of PBT and vPvB

assessment

12.6. Other adverse effects

Other adverse effects Not available.

Ecological information on ingredients.

1-METHOXY-2-PROPANOL

Other adverse effects Not available.

SODIUM HYDROXIDE

Other adverse effects Not determined.

3-BUTOXYPROPAN-2-OL

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated

because of the risk of an explosion.

SECTION 14: Transport information

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR

and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported

as Limited Quantities. Aerosols not so packed and labelled must show the following.

14.1. UN number

UN No. (ADR/RID) 1950 **UN No. (IMDG)** 1950

Coil Foam

UN No. (ICAO) 1950 UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name

AEROSOLS

(ADR/RID)

Proper shipping name (IMDG) AEROSOLS
Proper shipping name (ICAO) AEROSOLS
Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels



14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ADN packing group None

ICAO packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Transport in bulk according to Not applicable. **Annex II of MARPOL 73/78**

and the IBC Code

SECTION 15: Regulatory information

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

Coil Foam

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

EH40/2005 Workplace exposure limits.

The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131.

British Aerosol Manufacturers Code of Practice 7th. Edition 1999

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments This is first issue.

Revision date 04/10/2017

Revision 1

SDS number 21330

SDS status Approved.

Hazard statements in full H220 Extremely flammable gas.

H222 Extremely flammable aerosol. H226 Flammable liquid and vapour.

H229 Pressurised container: may burst if heated.

H280 Contains gas under pressure; may explode if heated.

H290 May be corrosive to metals. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Annex To Safety Data Sheet: Anhydrous Sodium Hydroxide

Description of the activities/processes covered in the Exposure Scenario

See Section 1 of the Safety Data Sheet.

Condition of use

Duration and frequency: 5 workdays/week.

Physical parameters
Physical state: Solid.

Concentration of the substance in the mixture: Raw material.

Other operational conditions

Other operational conditions affecting environmental exposure: No special measures required.

Other operational conditions affecting worker exposure:

Avoid contact with eyes. Avoid contact with skin.

Other operational conditions affecting consumer exposure: Keep out of reach of children

Other operational conditions affecting consumer exposure during the use of the product: Not applicable

Risk management measures

Worker protection

Organisational protective measures: No special measures required

Technical protective measures: Ensure that suitable extractors are available on processing machines

Personal protective measures: Do not inhale dust/smoke/mist

Avoid contact with the skin

Avoid contact with the eyes

Tightly sealed goggles

Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. The supplier has not given a recommendation for the glove material when using this product. Selection of the glove material should be made upon consideration of the penetration time, rate of diffusion and degradation.

Measures for consumer protection

Ensure adequate labelling

Keep locked up and out of reach of children.

Environmental protection measures

Water

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Disposal measures: Disposal should be made according to official regulations.

Disposal procedures

Must not be disposed together with household waste. Do not allow product to reach sewage system

Waste type: Partially emptied and uncleaned packaging.

Exposure estimation

Consumer: Not relevant for this Exposure Scenario.

Guidance for downstream users: No further relevant information available.