

SAFETY DATA SHEET

Grease Buster

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

1.1. Product identifier

Product name Grease Buster
Product number AER-O-500

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

Identified uses Evaporator and condenser 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 3 - H229
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373
Environmental hazards Aquatic Chronic 2 - H411

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Pictogram



Signal word

Warning

Hazard statements

H229 Pressurised container: may burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Grease Buster

Precautionary statements	<p>P251 Do not pierce or burn, even after use.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P280 Wear protective clothing and gloves.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
Supplemental label information	<p>ADD1 4.9% by mass of the contents are flammable</p> <p>RCH002a Restricted to professional users.</p>
Contains	DICHLOROMETHANE, Orange Terpene
Detergent labelling	≥ 30% halogenated hydrocarbons, < 5% perfumes

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

DICHLOROMETHANE	60-100%
CAS number: 75-09-2	EC number: 200-838-9
	REACH registration number: 01-2119480404-41
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Carc. 2 - H351	
STOT SE 3 - H335, H336	
STOT RE 2 - H373	
Orange Terpene	1-5%
CAS number: 8028-48-6	EC number: 232-433-8
	REACH registration number: 01-2119493353-35
M factor (Chronic) = 1	
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Chronic 1 - H410	

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. Get medical attention if any discomfort continues.

Grease Buster

Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove affected person from source of contamination. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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 the following media: Water spray, fog or mist. Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemicals, sand, dolomite etc.
-------------------------------------	--

5.2. Special hazards arising from the substance or mixture

Specific hazards	Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon dioxide (CO ₂). Carbon monoxide (CO). Hydrogen chloride (HCl). Phosgene (COCl ₂). Containers can burst violently or explode when heated, due to excessive pressure build-up. Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. May form explosive or toxic mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up.
-------------------------	---

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out. If risk of water pollution occurs, notify appropriate authorities.
---	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
----------------------------------	---

6.3. Methods and material for containment and cleaning up

Grease Buster

Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform authorities if large amounts are involved.

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

Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Use explosion proof electric equipment. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from heat, sparks and open flame.

Storage class

Miscellaneous hazardous material storage.

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

DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 350 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 1060 mg/m³(Sk)

Orange Terpene

Long-term exposure limit (8-hour TWA): WEL 800 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

DICHLOROMETHANE (CAS: 75-09-2)

DNEL

Industry - Inhalation; Short term systemic effects: 353 mg/m³

Industry - Dermal; Long term systemic effects: 2395 mg/kg/day

Industry - Dermal; Long term local effects: 88.3 mg/m³

Industry - Oral; Long term local effects: 0.06 mg/kg/day

Consumer - Inhalation; Short term systemic effects: 706 mg/m³

Consumer - Dermal; Long term systemic effects: 4750 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 353 mg/m³

Grease Buster

PNEC	<ul style="list-style-type: none"> - Fresh water; 0.54 mg/l - Marine water; 0.194 mg/l - Intermittent release; 0.27 mg/l - Sediment (Freshwater); 4.47 mg/kg - Sediment (Marinewater); 1.61 mg/kg - Soil; 0.583 mg/kg - STP; 26 mg/l
-------------	---

Orange Terpene (CAS: 8028-48-6)

DNEL	<p>Consumer - Oral, Dermal; Long term systemic effects: 4.44 mg/kg/day</p> <p>Workers - Dermal; Long term systemic effects: 8.89 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 7.78 mg/m³</p> <p>Workers - Inhalation; Long term systemic effects: 31.1 mg/m³</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0.054 mg/l - Sediment (Freshwater); 1.3 mg/kg - Intermittent release; 0.00577 mg/l - Sediment (Marinewater); 0.13 mg/kg - Marine water; 0.0054 mg/l - STP; 2.1 mg/l - Soil; 0.261 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

All handling should only take place in well-ventilated areas. Provide adequate general and local exhaust ventilation. This product must not be handled in a confined space without adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a supplied-air respirator. Wear self-contained breathing apparatus.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless to pale yellow.
Odour	Organic solvents. Oranges

Grease Buster

Initial boiling point and range	~40°C @
Flash point	None°C
Evaporation rate	<2% in 30 minutes
Vapour pressure	(dichloromethane) 380 mbar @ 20°C
Vapour density	(Dichloromethane) 2.93
Relative density	~1.22 @ 20°C
Solubility(ies)	~7 @ °C Slightly soluble in water. Soluble in the following materials: Organic solvents.
Viscosity	Brookfield ~3000 cPs @ 20°C
Comments	Information given is applicable to the major ingredient.

9.2. Other information

Other information	Not available.
Volatility	100%
Volatile organic compound	This product contains a maximum VOC content of 1230 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	Stable at normal ambient temperatures. Will decompose on red hot surfaces, in electric arcs or naked flames to evolve predominantly hydrochloric acid and a trace of phosgene gas.
------------------	--

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. Avoid contact with the following materials: Oxidising agents. Reducing agents.
----------------------------	--

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

Other health effects	IARC Int. Agency for Cancer Research. Consolidated carcinogen list. Carcinogen Category 3.
-----------------------------	--

Inhalation	Vapours may cause headache, fatigue, dizziness and nausea. May cause respiratory system irritation. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
-------------------	--

Grease Buster

Ingestion	Swallowing concentrated chemical may cause severe internal injury. May cause liver and/or renal damage. Ingestion of large amounts may cause unconsciousness.
Skin contact	Irritating to skin. Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	Gas or vapour is harmful on prolonged exposure or in high concentrations. This product may cause skin and eye irritation. A single exposure may cause the following adverse effects: Central nervous system depression.
Route of exposure	Inhalation Skin absorption Ingestion. Skin and/or eye contact
Target organs	Central nervous system Eyes Heart & cardiovascular system Kidneys Liver Respiratory system, lungs Skin
Medical symptoms	Severe irritation, burning and tearing. Dilated pupils. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure).
Medical considerations	Skin disorders and allergies. Liver and/or kidney damage. Convulsions. Central nervous system depression. History of smoking.

Toxicological information on ingredients.

DICHLOROMETHANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 86.0

Species Rat

ATE inhalation (vapours mg/l) 86.0

SECTION 12: Ecological Information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Toxicity Not available.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 193-330 (dichloromethane) mg/l, Fish

Ecological information on ingredients.

DICHLOROMETHANE

Toxicity Not available.

Acute aquatic toxicity

Grease Buster

Acute toxicity - fish	LC ₅₀ , 96 hours: 193 mg/l, Pimephales promelas (Fat-head Minnow) LC ₅₀ , 96 hours: 220 mg/l, Lepomis macrochirus (Bluegill) LC ₅₀ , 96 hours: 97 mg/l, Marinewater fish LC ₅₀ , 96 hours: 193 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 480 mg/l, Daphnia magna LC ₅₀ , 48 hours: 109 mg/l, Marinewater invertebrates LC ₅₀ , 48 hours: 27 mg/l, Freshwater invertebrates
Acute toxicity - aquatic plants	NOEC, 192 hours: 550 mg/l, Freshwater algae IC ₅₀ , 72 hours: >662 mg/l, Algae
Acute toxicity - microorganisms	EC ₈₀ , : 2590 mg/l, Activated sludge

Orange Terpene

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 0.7 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.67 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 150 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

M factor (Chronic)	1
---------------------------	---

12.2. Persistence and degradability

Persistence and degradability Not available.

Ecological information on ingredients.

DICHLOROMETHANE

Persistence and degradability	Not available.
Phototransformation	Supplier's information. Calculated as, Air - DT ₅₀ : 79.3 days Photochemically oxidised in the troposphere.
Stability (hydrolysis)	Not hydrolysed under normal environmental conditions.
Biodegradation	- Half-life : 0.8 g/l, per hour

Orange Terpene

Biodegradation	- Degradation 72-83.4 %: 28 days
-----------------------	----------------------------------

12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

Ecological information on ingredients.

DICHLOROMETHANE

Grease Buster

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product. BCF: < 100,

Partition coefficient log Kow: 1.25

Orange Terpene

Bioaccumulative potential BCF: 32-156,

Partition coefficient log Pow: ≥ 4 (>80% product)

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS (CONTAINS Orange Terpene)

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.2

ADR/RID classification code 5A,5O

ADR/RID label 2.2

Grease Buster

IMDG class 2.2

ICAO class/division 2.2

ADN class 2.2

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



14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 3

Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
EH40/2005 Workplace exposure limits.
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
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.
Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments Supplemental information added.

Grease Buster

Revision date	04/10/2017
Revision	4
SDS number	10116
SDS status	Approved.
Hazard statements in full	H226 Flammable liquid and vapour. H229 Pressurised container: may burst if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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.