

SAFETY DATA SHEET



January 2014
Version No #2

Document reference no: MSDS PTOIL2014

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

1.1 Product Identifier

Material Name: Pre-treatment oil
Product Code: J7555
REACH Registration No: 01-2119467170-45-XXXX

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

Product Use : Rust preventative raw material

1.3 Details of the supplier of the substance or mixture

Manufacturer/Supplier: A&E Systems Limited
3 Charles Wood Road, Dereham, Norfolk, NR19 1SX UK
Telephone: +44 1362 694915
Email Contact for MSDS: If you have any enquiries about the content of this MSDS please email tech@ae-sys.com

1.4 Emergency Telephone Number: +44 725 987326 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Regulation (EC) No 1272/2008 (CLP)

Hazard classes/Hazard categories	Hazard Statement
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Not classified	N/A
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67/548/EEC or 1999/45/EC

Hazard Characteristics	R-phrases(s)
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Not classified as dangerous under EC criteria.	
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2.2 Label Elements

Safety Data Sheet

Labeling according to Regulation (EC) No 1272/2008

Symbol(s): No symbol
Signal Words: No signal word

CLP Hazard Statements: PHYSICAL HAZARDS:
Not classified as a physical hazard under GHS criteria.

 HEALTH HAZARDS:
Not classified as a health hazard under GHS criteria.

 ENVIRONMENTAL HAZARDS:
Not classified as an environmental hazard under GHS criteria.

CLP Precautionary statements:

Prevention: No precautionary phrases.
Response: No precautionary phrases.
Storage: No precautionary phrases.
Disposal: No precautionary phrases.

Labeling according to Directive 1999/45/EC/67/548/EEC

EC Symbols: Not classified as dangerous under EC criteria.
E C Classification: Not classified as dangerous under EC criteria.

2.3 Other Hazards

Not classified as flammable but will burn.
Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Material Name: Highly refined mineral oil.
CAS No: 64742-52-5

3.2 Mixtures

Preparation Description: Product is not a mixture according to regulation 1907/2006JEC.
Additional Information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: Not expected to be a health hazard when used under normal conditions.
Inhalation: Not applicable.
Skin Contact: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion: If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give nothing by mouth.

4.2 Most important symptoms/effects, acute & delayed

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

5.1 Extinguishing Media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: Do not use water in a jet.

5.2 Special hazards arising from substance or mixture:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

5.3 Advice for fire-fighters: Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin and eyes.

6.2 Environmental Precautions:

Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

6.3 Methods and Material for Containment and Clean Up

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional Advice: Local authorities should be advised if significant spillages cannot be contained.

6.4 Reference to other sections: For guidance on selection of personal protective equipment see Section 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of this Material Safety Data Sheet.

7. HANDLING AND STORAGE

General Precautions: Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal.

7.1 Safe Handling Precautions: Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and in a cool, well-ventilated place.

Use properly labelled and closeable containers.

Storage Temperature: 0 - 50°C / 32 - 122°F.

Store separately from oxidising agents.

The storage of this product may be subject to Control of Pollution/Oil Storage Regulations. Further guidance may be obtained from local environmental agency office.

7.3 Specific End Uses: Not applicable

Additional Information: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion. Exposure to this product should be reduced as low as reasonably practicable. Reference should be made to the Health & Safety Executive's publication *COSHH Essentials*.

Recommended Materials: For containers or linings, use mild steel or high density polyethylene.

Unsuitable Materials: PVC.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

8.1 Control Parameters

Occupational Exposure Limits:

Material	Source	Type	ppm	mg/m ³	Notation
Oil mist, mineral [Inhalable fraction]	ACGIH	TWA		5 mg/m ³	

Biological Exposure Index (BEI): Data not available

PNEC related information: Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

8.2 Exposure Controls

General Information: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.

Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Occupational Exposure Controls:

Personal Protective Personal protective equipment (PPE) should meet Equipment recommended national standards. Check with PPE suppliers. Eye Protection Wear safety glasses or full face shield if splashes are likely to occur. Approved to EU Standard EN166.

Hand Protection: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Body protection: Skin protection not ordinarily required beyond standard issue work clothes.

Respiratory Protection: No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C (149°F)] meeting EN14387.

Thermal Hazards: Not applicable.

Monitoring Methods: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Environmental Exposure Controls

Environmental exposure: Minimise release to the environment. An environmental control measures assessment must be made to ensure compliance with local environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Amber. Liquid at room temperature.
Odour:	Slight hydrocarbon.
pH:	Not applicable.
Initial Boiling Point and Boiling Range:	> 280°C/536°F estimated value(s)
Pour point:	Typical -45°C/-49°F
Flash point:	Typical 185°C/365°F (COC)
Upper/lower Flammability or Explosion limits:	Typical 1 - 10 %(V) (based on mineral oil)
Auto-ignition temperature:	> 320°C/608°F
Vapour pressure:	< 0.5 Pa at 20°C/68°F (estimated value(s))
Density:	Typical 899 kg/m ³ at 15°C/59°F
Water solubility:	Negligible.
Solubility in other solvents:	Data not available
n-octanol/water partition coefficient (log Pow):	> 6 (based on information on similar products)
Dynamic viscosity:	Data not available
Kinematic viscosity:	Typical 28 mm ² /s at 40°C/104°F
Vapour density (air=1):	> 1 (estimated value(s))
Evaporation rate (nBuAc=1):	Data not available
Decomposition:	Data not available
Temperature Flammability:	Data not available

9.2 Other Information

Other Information: Not applicable.

10. STABILITY AND REACTIVITY

10.1 Reactivity: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions: Reacts with strong oxidising agents.

10.4 Conditions to Avoid: Extremes of temperature and direct sunlight.

10.5 Incompatible Materials: Strong oxidising agents.

10.6 Hazardous Decomposition Products: Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects

Basis for Assessment: Information given is based on data on the components and the toxicology of similar products.

Likely Routes of Exposure:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute Oral Toxicity:	Low toxicity: LD50 > 5000 mg/kg, Rat
Acute Dermal Toxicity:	Low toxicity: LD50 > 5000 mg/kg, Rabbit
Acute Inhalation Toxicity:	Low toxicity: LD50 >5 mg/l/4 h, Rat
Skin Corrosion/Irritation:	Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Serious Eye Damage/Irritation:	Expected to be slightly irritating.
Respiratory Irritation:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Respiratory or Skin Sensitisation:	Not expected to be a skin sensitiser.
Aspiration Hazard:	Not considered an aspiration hazard.
Germ Cell Mutagenicity:	Not considered a mutagenic hazard.
Carcinogenicity:	Product contains mineral oils of types shown to be noncarcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).
Reproductive and Developmental Toxicity:	Not expected to be a hazard.
Specific target organ toxicity - single exposure:	Not expected to be a hazard.
Specific target organ toxicity - repeated exposure:	Not expected to be a hazard.
Additional Information:	Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Basis for Assessment: Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

12.1 Toxicity

Acute Toxicity:	Poorly soluble mixture. May cause physical fouling of aquatic organisms. (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Fish:	Practically non toxic: LL/EL/IL50 > 100 mg/l
Aquatic Invertebrates:	Practically non toxic: LL/EL/IL50 > 100 mg/l
Algae:	Practically non toxic: LL/EL/IL50 > 100 mg/l
Microorganisms:	Practically non toxic: LC/EC/IC50 > 100 mg/l
Chronic Toxicity	
Fish:	NOEC/NOEL > 100 mg/l
Aquatic Invertebrates:	NOEC/NOEL > 1.0 - <=10 mg/l

- 12.2 Persistence & degradability: Major constituents are expected to be readily biodegradable, but the product contains components that may persist in the environment.
- 12.3 Bioaccumulative Potential: Contains components with the potential to bioaccumulate.
- 12.4 Mobility: Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
- 12.5 Result of the PBT vPvB assessment: The substance does not fulfill all screening criteria for persistence, and bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.
- 12.6 Other Adverse Effects: Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential. photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Material Disposal: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment in drains or in water courses.
- Container Disposal: Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation: Disposal should be in accordance with applicable regional, national, and local laws and regulations.
EU Waste Disposal Code (EWC): 13 08 99 oil waste not otherwise specified. Classification of waste is always the responsibility of the end user.

14. TRANSPORT INFORMATION

Land transport (ADR/RID):

- ADR: This material is not classified as dangerous under ADR regulations.
RID: This material is not classified as dangerous under RID regulations.
- Inland waterways transport (ADN): This material is not classified as dangerous under ADN regulations.
- Sea transport (IMDG Code): This material is not classified as dangerous under IMDG regulations.
- Air transport (IATA): This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

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

Other regulatory Information Authorisation and/or Restrictions in Use:

Product is not subject to Authorisation under REACH.

Chemical Inventory Status

EINECS: All components listed or polymer exempt.

TSCA: All components listed.

Other Information:

Environmental Protection Act 1990 (as amended). Health and Safety at Work Act 1974. Consumers Protection Act 1987. Control of Pollution Act 1974. Environmental Act 1995. Factories Act 1961. Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations. Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Control of Substances Hazardous to Health Regulations 1994 (as amended). Road Traffic (Carriage of Dangerous Substances in Packages) Regulations. Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations. Road Traffic (Carriage of Dangerous Substances in Road Tankers in Tank Containers) Regulations. Road Traffic (Training of Drivers of Vehicles Carrying Dangerous Goods) Regulations. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations. Health and Safety (First Aid) Regulations 1981. Personal Protective Equipment (EC Directive) Regulations 1992. Personal Protective Equipment at Work Regulations 1992.

15.2 Chemical Safety Assessment:

A Chemical Safety Assessment was performed for this substance.

16. OTHER INFORMATION

Identified Uses according to the Use Descriptor System

Uses - Worker - Industrial

- Manufacture of substance
- Distribution of substance
- Use as an intermediate
- Formulation & (re)packing of substances and mixtures
- Uses in Coatings
- Use in Cleaning Agents
- Use in Oil and Gas field drilling and production operations
- Lubricants
- Metal working fluids/rolling oils
- Use as binders and release agents
- Use as a fuel
- Functional Fluids
- Use in laboratories
- Rubber production and processing
- Water treatment chemicals
- Mining chemicals
- Polymer processing

Uses - Worker - Professional

- Uses in Coatings
- Use in Cleaning Agents
- Lubricants
- Metal working fluids/rolling oils
- Use as binders and release agents
- Use in Agrochemicals
- Use as a fuel
- Functional Fluids
- Road and construction applications
- Use in laboratories
- Water treatment chemicals
- Polymer processing
- Use in Oil and Gas field drilling and production operations

Uses - Consumer

- Uses in Coatings
- Use in Cleaning Agents
- Lubricants
- Use in Agrochemicals uses
- Use as a fuel
- Functional Fluid

Additional Information: This product is not classified for human health or environmental hazards. An exposure scenario is not required.

MSDS Distribution: The information in this document should be made available to all who may handle the product.

MSDS Version Number: #2 - Replaces #1 10-210

MSDS Issue Date: 03 January 2014

MSDS Regulation: Regulation 1907/2006/EC

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AUSTRALIA: A&E Systems PTY Limited, 5/28 Clark Court, Bibra Lake, Perth WA 6163, Australia
Tel: +61 (0)8 94183688 Fax: +61 (0)8 94183588 Email: aus@ae-sys.com

EUROPE: A&E Systems Ltd, 3 Charles Wood Road, Dereham, NR19 1SX, UK
Tel: +44 (0)1362 694915 Fax: +44 (0)1362 695350 Email: uk@ae-sys.com

MALAYSIA: A&E Systems Sdn Bhd, 26 Jalan Pendaftar U1/54, Sekysen U1, 40150 Shah Alam, Selangor, Malaysia
Tel : +60 (0)3-5569 4277 Fax : +60 (0)3-5569 4377 Email: mal@ae-sys.com

USA: Alocit & Enviropeel USA, 1128 South West Street, Indianapolis, Indiana 46225 USA
Tel: +1 317 631-9100 Email: info@enviropeelusa.com