

SAFETY DATA SHEET

WIRE ROPE & GEAR LUBRICANT

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

1.1. Product identifier

Product name WIRE ROPE & GEAR LUBRICANT

Product number A1721/01
Internal identification A067

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

Identified usesLubricant.

1.3. Details of the supplier of the safety data sheet

Supplier ARROW SOLUTIONS

RAWDON ROAD

MOIRA

SWADLINCOTE DERBYSHIRE DE12 6DA

TEL: +44 (0)1283 221044 FAX: +44 (0)1283 225731 sales@arrowchem.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Aerosol 1 - H222, H229 Aerosol 1 - H222, H229

Health hazards

Not Classified

Environmental hazards

Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)

F+;R12. R52/53,R67.

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

Revision date: 10/02/2015 Revision: 5.0 Supersedes date: 22/05/13

WIRE ROPE & GEAR LUBRICANT

H229 Pressurised container: may burst if heated

H412 Harmful to aquatic life with long lasting effects.

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

H222 Extremely flammable aerosol.

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.

P271 Use only outdoors or in a well-ventilated area.

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

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

P501 Dispose of contents/container in accordance with local regulations.

Contains HYDROCARBON PROPELLANT

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBON PROPELLANT		10-30%	
	CAS number: 68476-85-7	EC number: 270-704-2	

Classification (67/548/EEC or 1999/45/EC)

Flam. Gas 1 - H220 F+;R12.

Press. Gas, Liquefied - H280

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS number: — EC number: 927-241-2 REACH registration number: 01-2119471843-32-0000

 Classification
 Classification (67/548/EEC or 1999/45/EC)

 Flam. Liq. 3 - H226
 Xn;R65. R10,R66,R67,R52/53.

 STOT SE 3 - H336
 Asp. Tox. 1 - H304

Hydrocarbons,C7,n-alkanes,isoalkanes,cyclic 5-10%

CAS number: — EC number: 927-510-4 REACH registration number: 01-2119475515-33-xxxx

Classification Classification (67/548/EEC or 1999/45/EC) Flam. Liq. 2 - H225 Xn;R65. Xi;R38. F;R11. N;R51/53. R67.

Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 STOT SE 3 - H336 Aquatic Chronic 2 - H411

Aquatic Chronic 3 - H412

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DISTILLATES (PETROLEUM) SOLVENT-DEWAXED HEAVY PARAFFINIC (BASE OIL)

1-5%

CAS number: 64742-65-0 EC number: 265-169-7

Classification Classification (67/548/EEC or 1999/45/EC)

Asp. Tox. 1 - H304 Xn;R65.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact

Wash skin thoroughly with soap and water.

Eye contact

Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

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

Inhalation

Vapours may cause drowsiness and dizziness.

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

May cause discomfort.

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 or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Extremely flammable aerosol. Pressurised container: may burst if heated

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrocarbons.

5.3. Advice for firefighters

Protective actions during firefighting

Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid inhalation of vapours. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. Provide adequate ventilation. Take care as floors and other surfaces may become slippery. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves. Avoid contact with skin and eyes. Do not breathe vapours. Do not expose to temperatures exceeding 50°C/122°F. Provide adequate ventilation. Keep container in a well-ventilated place. Do not pierce or burn, even after use. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at temperatures between 4°C and 40°C.

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

HYDROCARBON PROPELLANT

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

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Long-term exposure limit (8-hour TWA): 1000 mg/m3

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m3 Short-term exposure limit (15-minute): WEL No std.

WEL = Workplace Exposure Limit

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

DNEL Industry - Dermal; systemic effects: 300 mg/kg/day

Industry - Inhalation; systemic effects: 1500 mg/m3 Consumer - Dermal; systemic effects: 300 mg/m3 Consumer - Inhalation; systemic effects: 900 mg/m3 Consumer - Oral; systemic effects: 300 mg/kg/day

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

DNEL Industry - Dermal; Long term : 300 mg/kg/day

Industry - Inhalation; Long term: 2085 mg/m3 Consumer - Dermal; Long term: 149 mg/kg/day Consumer - Inhalation; Long term: 447 mg/m3

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).

Hygiene measures

Wash hands after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Aerosol.

Colour

Brown.

Odour

Hydrocarbons.

Solubility(ies)

Insoluble in water.

9.2. Other information

Other information

Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation

Vapours may cause drowsiness and dizziness.

Ingestion

May cause discomfort if swallowed.

Skin contact

Prolonged and frequent contact may cause redness and irritation.

Eye contact

May cause discomfort.

<u>Toxicological information on ingredients.</u>

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute toxicity - oral

Acute toxicity oral (LD₅o mg/kg)

5,001.0

Species

Rat

ATE oral (mg/kg)

5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)

2001.0

Species

Rabbit

ATE dermal (mg/kg)

2001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

5080.0

Species

Rat

ATE inhalation (vapours mg/l)

5080.0

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Acute toxicity - oral

Acute toxicity oral (LD₅ mg/kg)

5,840.0

Species

Rat

ATE oral (mg/kg)

5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅o mg/kg)

2920.0

Species

Rat

ATE dermal (mg/kg)

2920.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l)

23.3

Species

Rat

ATE inhalation (vapours mg/l)

23.3

HYDROCARBON WAX OXIDISED CALCIUM SALT

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

5,000

Species

Rat

SECTION 12: Ecological Information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Acute toxicity - fish

Not determined.

Ecological information on ingredients.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute toxicity - fish

LL₅₀, 96 hours: 11 mg/l, Pimephales promelas (Fat-head Minnow)

Chronic toxicity - fish early life stage

LL₅₀, 48 hours: 5.2 mg/l, Pimephales promelas (Fat-head Minnow)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Acute toxicity - fish

LC50, 96 hours: > 13.4 mg/l, Onchorhynchus mykiss (Rainbow trout) LC50, 96 hours: <10 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC₅o, 48 hours: 3 mg/l, Daphnia magna EC₅o, 48 hours: <10 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: <10 mg/l, Algae

Chronic toxicity - fish early life stage

NOEC, 28 days: 1.53 mg/l, Onchorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 1 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability

The product is expected to be biodegradable.

Ecological information on ingredients.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Persistence and degradability

The product is not readily biodegradable.

Biodegradation

- 98%: 28 days

12.3. Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility

The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water and will spread on the water surface.

Ecological information on ingredients.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Mobility

The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

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

12.6. Other adverse effects

Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

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

AEROSOLS

Proper shipping name

(IMDG)

Proper shipping name

AEROSOLS

(ICAO)

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1
IMDG class 2.1
ICAO class/division 2.1

Transport labels



14.4. Packing group

ADR/RID packing group 5F

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 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

Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date 10/02/2015

Revision 5.0

Supersedes date 22/05/13

Risk phrases in full

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

Disclaimer

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.