SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Greygate
Chemical Products Limited

Allen Dry Lubricant PTFE — Ref 22401D

Version 2.0 | Revision Date 15/12/15 | Print Date 15/12/15

1. Identification of the substance/mixture and of the company/undertaking

Commercial name :	Allen Dry Lubricant PTFE	
Product type :	Lubricant	
Intended / Recommended Use :	Lubricant	
Manufacturer Name and address :	Greygate Chemical Products Limited	Tel +44 (0)1530 839222
	Brunel Way	Fax +44(0)1530837084
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2. Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Aerosol 1 - H222, H229
Health hazards Skin Irrit. 2 - H315
Environmental hazards Aquatic Chronic 3 - H412
Classification (67/548/EEC or 1999/45/EC) F+; R12. Xi; R38. R52/53
Human health Vapours and spray/mists in high concentrations are narcotic. See Section 11 for additional information on health hazards.
Environmental The product contains a substance which is harmful to aquatic organisms.
Physicochemical Containers can burst violently or explode when heated, due to excessive pressure build-up.
The product is extremely flammable. Vapours may form explosive mixtures with air.


Signal word Danger

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
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.
P261 Avoid breathing vapour/spray.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplementary precautionary statements
P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with national regulations.

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

3. Composition/information on ingredients

Name	Range	EINECS	CAS	OEL	Classification
PETROLEUM GASES, LIQUEFIED	60-100%	270-704-2	68476-85-7		Flam. Gas 1 - H220 Press. Gas, Compressed - H280
HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE	5-10%	921-024-6	64742-49-0		Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 STOT SE 3 - H336 Aquatic Chronic 2 - H411
HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE	1-5%	931-254-9	64742-49-0		Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

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

4. First aid measures

4.1. Description of first aid measures

General information 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.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.

Ingestion Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.

Skin contact Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information See Section 11 for additional information on health hazards.

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

Notes for the doctor Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting

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

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains.

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 in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Use suitable respiratory protection if ventilation is inadequate.

Advice on general occupational hygiene

Wash promptly with soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

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

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

PETROLEUM GASES, LIQUEFIED

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

WEL = Workplace Exposure Limit

HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE (CAS: 64742-49-0)

DNEL Consumer - Oral; Long term systemic effects: 699 mg/kg/day

Workers - Oral; Long term systemic effects: 773 mg/kg/day

Workers - Dermal; Long term systemic effects: 773 mg/kg/day

Consumer - Dermal; Long term systemic effects: 699 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 608 mg/m³

HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE (CAS: 64742-49-0)

DNEL Consumer - Oral; Long term systemic effects: 1301 mg/kg/day

Consumer - Dermal; Long term systemic effects: 1377 mg/kg/day

Workers - Dermal; Long term systemic effects: 13964 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 1131 mg/m³

Workers - Inhalation; Long term systemic effects: 5306 mg/m³

8.2. Exposure controls

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection No specific hand protection recommended.

Other skin and body protection

Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

Respiratory protection No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

Process conditions

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Explosion-proof general and local exhaust ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Check that mask fits tight and change filter regularly.

Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Use protective gloves made of: Nitrile. Polyvinyl alcohol (PVA). Viton rubber (fluor rubber).

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. If risk of splashing, wear safety goggles or face shield.

Other Protection

Use barrier creams to prevent skin contact. Provide eyewash station and safety shower. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. Eating, smoking and water fountains prohibited in immediate work area. DO NOT SMOKE IN WORK AREA!

Environmental Exposure Controls

Avoid release to the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance Aerosol.
Colour Clear.
Odour Solvent.
Odour threshold No information available.
pH No information available.
Melting point No information available.
Initial boiling point and range -41 (-41 TO 250)°C @
Flash point -40°C CC (Closed cup).
Evaporation rate No information available.
Evaporation factor No information available.
Flammability (solid, gas) No information available.
Upper/lower flammability or
explosive limits
Lower flammable/explosive limit: 1.0 % Upper flammable/explosive limit: 9.5 %
Vapour pressure No information available.
Vapour density No information available.
Relative density 0.63
Solubility(ies) Insoluble in water.
Partition coefficient No information available.
Auto-ignition temperature 413°C
Decomposition Temperature No information available.
Viscosity No information available.
Explosive properties No information available.
Oxidising properties No information available.
9.2. Other information
Other information None.

10. Stability and reactivity Note: no data available

10.1. Reactivity
Reactivity No test data specifically related to reactivity available for this product or its ingredients.
10.2. Chemical stability
Stability The product may not be stable under some conditions of storage or use.
10.3. Possibility of hazardous reactions
Possibility of hazardous
reactions
None known.
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 None known.
10.6. Hazardous decomposition products
Hazardous decomposition
products
None at ambient temperatures.

11. Toxicological information

11.1. Information on toxicological effects
Inhalation Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.
Skin contact Causes skin irritation.
Eye contact Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health
hazards
No known chronic or acute health risks.
Route of entry Inhalation Skin and/or eye contact
Toxicological information on ingredients.
HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE
Acute toxicity - oral
Acute toxicity oral (LD_{50} mg/kg) 5,001.0
Species Rat - ATE oral (mg/kg) 5,001.0
Acute toxicity - dermal
Acute toxicity dermal (LD_{50} mg/kg) 2,001.0
Species Rabbit - ATE dermal (mg/kg) 2,001.0
HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE
Acute toxicity - oral
Acute toxicity oral (LD_{50} mg/kg) 5,001.0
Species Rat - ATE oral (mg/kg) 5,001.0
Acute toxicity - dermal
Acute toxicity dermal (LD_{50} mg/kg) 2,001.0
Species Rabbit - ATE dermal (mg/kg) 2,001.0
Acute toxicity - inhalation
Acute toxicity inhalation (LC_{50} vapours mg/l) 21.0
Species Rat - ATE inhalation (vapours mg/l) 21.0

12. Ecological information

SECTION 12: Ecological Information
12.1. Toxicity
Ecological information on ingredients.
HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE
Acute toxicity - fish LOEC, : 1-10 mg/l, Fish
Acute toxicity - aquatic
plants
LOEC, : 10-100 mg/l, Algae
Acute toxicity -
microorganisms
LOEC, : 1-10 mg/l, Activated sludge
HYDROCARBONS, C6 ISOALKANES <5% N-HEXANE
Acute toxicity - fish LOEC, : 10-100 mg/l, Fish
Acute toxicity - aquatic
plants
LOEC, : 10-100 mg/l, Algae
12.2. Persistence and degradability
Persistence and degradability No data available.
12.3. Bioaccumulative potential
Partition coefficient No information available.
12.4. Mobility in soil
Mobility No data available
12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB
assessment
This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects
Other adverse effects None known.

13. Disposal considerations

13.1. Waste treatment methods
General information Dispose of waste product or used containers in accordance with local regulations
Disposal methods Containers should be thoroughly emptied before disposal because of the risk of an explosion.
Do not pierce or burn, even after use.

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
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
Not applicable.
14.5. Environmental hazardsEnvironmentally hazardous substance/marine pollutant
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 MARPOL73/78 and the IBC Code
Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code
Not applicable.

Environmentally hazardous substance/marine pollutant
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 MARPOL73/78 and the IBC Code
Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code
Not applicable.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
EU legislation 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).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).
15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

16. Other information Full text of R-phrases referred to under sections 2 and 3

Revision date 15/12/2015
Revision 1
SDS number 6142
Hazard statements in full H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H280 Contains gas under pressure; may explode if heated.
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.
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.

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