CLYDSPIN®

High temperature lubricant for sootblowers and gland valves

Description

CLYDSPIN® is a uniquely blended Graphite lubricant for use in lubricating bearing surfaces and glands, subjected to elevated temperatures, at which carbonisation is to be avoided. Regular use of CLYDSPIN® imparts a long lasting Graphite lubricating film ensuring optimum performance of equipment.

CLYDSPIN® is particularly suitable for use on sootblowers where moving parts are subjected to high temperatures sometimes in excess of 400°C and where wear of gland packing is to be minimised. CLYDSPIN® will help to ensure high availability of sootblower service, prolong the working life of sootblowers, and minimise maintenance requirements.

CLYDSPIN® is also suitable for use on other valve glands and other parts where high temperature lubrication without carbonisation is required.

CLYDSPIN® can be applied by use of hand operated grease guns, automatic lubricators, and automatically controlled lubricant distribution systems.

For best results apply during operation of equipment.

Storage

CLYDSPIN® is non volatile and has a low fire hazard. Store at normal ambient temperatures in sealed, labelled containers. Prolonged storage may result in slight oil separation. It is recommended that CLYDSPIN® is not stored longer than three years.

Health & Safety

CLYDSPIN® is unlikely to present any significant Health & Safety hazard where good standards of industrial and personal hygiene are maintained. For further information please consult Product Safety Datasheet

Grease guns

The type TL grease gun suitable for 400g cartridge or filling direct. Supplied with flexible delivery hose and special connector for use on Clyde Bergemann patent sootblowers.

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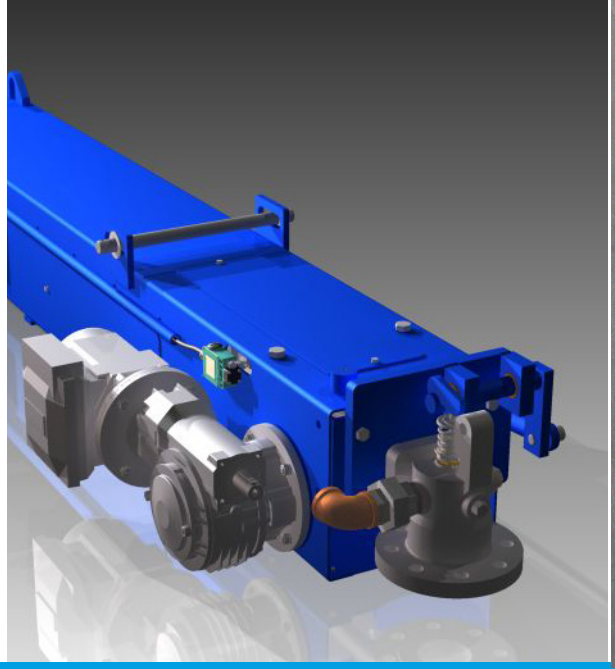

Increased throughput and process availability

CLYDSPIN® Technical Data	
Description	Graphite loaded lubricant
General composition	Natural flake graphite and mineral base oil
Consistency	No. 2 grease
Relative density IP59*	0.89
Drop point IP31*	175°C
Flash point IP34*	180°C
Unworked penetration IP50*	278/288
Worked penetration IP50*	290/300
Acidity and alkilinity IP37*	Free acid 0.35% Free alkali 0.12%
Solubility in water at 20°C for 24 hrs	0.1%
Dynamic anti-rust IP220*	1-2 grade
Oxidised ash, 1 hour at 800°C	1.9%
* Test conducted at Swansea Tribology Centre, February 1990	

Your Advantages

- Non carbonising lubricant
- Improved plant performance
- Reduced maintenance costs
- Energy saving

Pack sizes

- 400gm cartridges supplied in cartons of 12
- 4.5kg Tubs
- Bulk: 15kg Tubs, 180kg Drums.

CLYDE BERGEMANN

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

1.1 PRODUCT NAME: **CLYDSPIN**

1.2 PRODUCT DESCRIPTION: A GRAPHITE BASED GREASE FOR LUBRICATING FEED TUBES TO PROMOTE STUFFING BOX STEAM SEALING

1.3 COMPANY UNDERTAKING IDENTIFICATION: **CLYDE BERGEMANN LTD** (Distributor)
47 BROAD STREET, BRIDGETON
GLASGOW G40 2QR
SCOTLAND UK
TEL: +44 (0) 141 550 5400
FAX: +44 (0) 141 550 5402

1.4 EMERGENCY PHONE NUMBER: +44 (0) 141 550 5400

2. HAZARDS IDENTIFICATION

2.1 Classification of the substances or mixture
2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)
This product has no classification under CLP
2.1.2 Additional information
The product contains Mineral Oil with less than 3% DMSO extract as measured by IP346.
2.2 Label elements
This product has no label elements
2.3 Other hazards
PBT: The substances in this product are not identified as a PBT / vPvB substances.

3. COMPOSITION / INFORMATION OF INGREDIENTS

Clydspin lubricating grease substances

Graphite flakes	CAS No. 7782-42-5	Approx 15%
Mineral Oil	CAS No. 64742-52-5 & CAS No. 64742-54-7	Approx 70- 85%

4. FIRST AID MEASURES

INHALATION: Move to fresh air in case of accidental inhalation of vapours. Obtain medical advice if irritation continues.
SKIN CONTACT: Wash with soap and water. Change contaminated clothing and launder before re-use.
EYE CONTACT: Bathe the eye with running water for 15 minutes. Obtain medical advice if redness and/or irritation persists.
INGESTION: Wash out mouth with water. Do not induce vomiting because of the danger of aspiration. Obtain medical advice if aspiration occurs.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide. Dry chemical powder. Water spray. Alcohol or polymer foam.
EXPOSURE HAZARDS: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. SPECIFIC HAZARDS: Evaluation of gases and particulates (see section 10).
SPECIAL PROTECTIVE EQUIPMENT: Wear breathing apparatus for fires in closed or confined spaces.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: May cause slippery surfaces.
ENVIRONMENTAL PRECAUTIONS: Contain spillage – do not wash down drain. Report any escape to public drainage or water courses to local authority and Fire Brigade
RECOVERY: Absorb into dry earth or sand. Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

HANDLING REQUIREMENTS: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.
STORAGE CONDITIONS: Store in cool, well ventilated area. Prevent the build up of electrostatic charge in the immediate area. Avoid incompatible materials and conditions - see section 10 of SDS.
SUITABLE PACKAGING: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARD: HSE Guidance Note "Working safely with metalworking fluids" respiratory illness and cancer from mineral oils. (http://www.hse.gov.uk/pubns/indg365.pdf). See also https://www.osha.gov/dts/chemicalsampling/data/CH_258700.html (accessed 24/1/2018)
RESPIRATORY PROTECTION: Unlikely to be required in normal use, ensure sufficient ventilation. If the product is exposed to heat and an operator is exposed to vapours then a suitable air-purifying respirator with an N100, R100, or P100 filter should be worn.
HAND PROTECTION: Wear gloves (nitrile rubber or neoprene) for repeated exposure.
EYE PROTECTION: Wear eye protection if splashing is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Black Semi-Solid Grease
STATE: Paste
ODOUR: Odourless
FLASH POINT: > 93°C BOILING POINT/RANGE: >35°C
RELATIVE DENSITY: 0.82-0.85
SOLUBILITY (WATER): Insoluble

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended transport or storage conditions.
CHEMICAL STABILITY: Stable under normal conditions.
CONDITIONS/MATERIALS TO AVOID: Heat. Sources of ignition. Flames. Strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

INHALATION: Unlikely to be irritant under normal conditions but there may be irritation of the throat with a feeling of tightness in the chest.
SKIN CONTACT: There may be mild irritation at the site of contact.
EYE CONTACT: May cause irritation with short-term redness and stinging.
INGESTION: There may be soreness and redness of the mouth and throat. There may be vomiting and diarrhoea.

12. ECOLOGICAL INFORMATION

No information available, but can be expected to biodegrade slowly. Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OPERATIONS: Transfer to a suitable container and arrange for collection by specialised disposal company.
WASTE CODE NUMBER: 12 01 12
DISPOSAL OF PACKAGING: Arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

This product does not require a classification for transport.

15. REGULATORY INFORMATION

SUPPLY CLASSIFICATION : Not Classified as Hazardous for supply.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with the REACH DIRECTIVE 1907/2006 Annex II.
Every effort has been made to ensure that the information in this Safety Data Sheet is accurate and reliable, but the company cannot accept liability for any loss, injury or damage, which may result from its use. Data given in this Safety Data Sheet is solely for the guidance in safe handling and use of the product by customers - they do not constitute a specification. Customers are reminded that there may be applications of our products, which are protected by patent, under which they have no rights whatsoever. If any difficulties should arise, we will be happy to discuss them. Customers are encouraged to carry out their own tests. Before using any product, read the label carefully.