SAFETY DATA SHEET Sterling Drilling & Tapping Spray

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

1.1. Product identifier

Product name Sterling Drilling & Tapping Spray

LS84 Product number

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

Identified uses Thread-cutting lubricant.

1.3. Details of the supplier of the safety data sheet

Supplier Beal (UK) Ltd

> Sterling Works **Texas Street** Tingley (A650)

Leeds, West Yorkshire

LS27 0HG

T 0113 253 8888 F 0113 253 0223 sales@beal.org.uk

1.4. Emergency telephone number

Emergency telephone 0113 253 8888

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Aerosol 1 - H222, H229

Health hazards Not Classified

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Classification (67/548/EEC or F+;R12. R66.

1999/45/EC)

Human health Gas or vapour is harmful on prolonged exposure or in high concentrations. In high

> concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this

container is dangerous and can be fatal.

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

Physicochemical Aerosol containers can explode when heated, due to excessive pressure build-up. The

product is extremely flammable. When sprayed on a naked flame or any incandescent

material the aerosol vapours can be ignited.

2.2. Label elements

Pictogram





Sterling Drilling & Tapping Spray

Signal word Danger

Hazard statements H222 Extremely flammable aerosol.

> H229 Pressurised container: may burst if heated H410 Very toxic to aquatic life with long lasting effects.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No **Precautionary statements**

smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P102 Keep out of reach of children. P260 Do not breathe vapour/spray.

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

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

Supplemental label

information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains Alkanes C14-17, chloro, chlorinated paraffins, C14-17

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

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

30-60%

CAS number: 68476-85-7 EC number: 270-704-2

Classification Classification (67/548/EEC or 1999/45/EC) Flam. Gas 1 - H220

Press. Gas, Liquefied - H280

F+;R12 Carc. Cat. 1;R45 Muta. Cat. 2;R46

Odourless Kerosene 10-30%

CAS number: -EC number: 926-141-6 REACH registration number: 01-

2119456620-43

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

Asp. Tox. 1 - H304 Xn;R65. R66.

Alkanes C14-17, chloro, chlorinated paraffins, C14-17

10-30%

CAS number: 85535-85-9 EC number: 287-477-0 REACH registration number: 01-

2119519269-33

M factor (Acute) = 100 M factor (Chronic) = 100

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

Aguatic Acute 1 - H400 R64 R66 N;R50/53

Aquatic Chronic 1 - H410

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

Sterling Drilling & Tapping Spray

General information Move affected person to fresh air at once.

Inhalation If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention

immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes and get medical attention.

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 doctorTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

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.

Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-

up.

5.3. Advice for firefighters

Protective actions during

firefighting

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

Warn firefighters that aerosols are involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate.

Avoid inhalation of vapours.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with

sand, earth or other suitable non-combustible material.

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 spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter

confined spaces, due to the risk of explosion.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

Sterling Drilling & Tapping Spray

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Keep away from heat, sparks and open

flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent

material.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Extremely flammable. Keep away from heat, sparks and open flame. Store at moderate

temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do

not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

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

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

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

Odourless Kerosene

Long-term exposure limit (8-hour TWA): OEL 1200 mg/m³

WEL = Workplace Exposure Limit OEL = Occupational Exposure Limit.

Ingredient comments WEL = Workplace Exposure Limits

Alkanes C14-17, chloro, chlorinated paraffins, C14-17 (CAS: 85535-85-9)

DNEL Industry - Inhalation; Long term systemic effects: 1.6 mg/m³

Industry - Dermal; Long term systemic effects: 47.9

Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day Consumer - Inhalation; Long term systemic effects: 2 mg/m³ Consumer - Dermal; Long term systemic effects: 28.75 ppm

PNEC - STP; 80 mg/l

Sediment (Freshwater); 5 mg/kgSediment (Marinewater); 1 mg/kg

Soil; 10.5 mg/kgFresh water; .001 mg/lMarine water; 0.0002 mg/l

8.2. Exposure controls

Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any

occupational exposure limits for the product or ingredients.

Personal protection When using do not smoke.

Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles.

Sterling Drilling & Tapping Spray

Hand protection Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant,

impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough

time of the glove material.

Hygiene measures Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the

end of each work shift and before eating, smoking and using the toilet. Use appropriate hand

lotion to prevent defatting and cracking of skin.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Aerosol.

Colour Colourless to pale yellow.

Odour Characteristic.

Initial boiling point and range -40 to -2°C @ 1013 hPa

Flash point <-40°C

Upper/lower flammability or

explosive limits

Lower: 1.8% - Upper 9.5%

Vapour pressure ca. 590 to 1760 kPa @ 45°C

Vapour density ca. 1.5 at 15°C

Partition coefficient log Pow: ca. 2.3 to 2.8

Auto-ignition temperature 410 - 580°C

Comments Information given is applicable to the major ingredient.

9.2. Other information

Other information Not available.

Volatile organic compound This product contains a maximum VOC content of 477 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 Heat, sparks, flames.

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, flames and other sources of ignition. Avoid exposing aerosol containers to high

temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising materials, heat and flames.

Sterling Drilling & Tapping Spray

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

General information Deliberately concentrating and inhaling the contents of this container is dangerous and can be

fatal.

In high concentrations, vapours and aerosol mists have a narcotic effect and may cause

headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

Skin contact Skin irritation should not occur when used as recommended. Repeated exposure may cause

skin dryness or cracking.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health

hazards

In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Arrhythmia (deviation from normal heart beat).

Route of entry Inhalation

Target organs Central nervous system Respiratory system, lungs

Medical symptoms Skin irritation. Arrhythmia (deviation from normal heart beat). Vapours may cause drowsiness

and dizziness.

SECTION 12: Ecological Information

Ecotoxicity ENVIRONMENTAL HAZARDS: This product has not been tested but contains ingredients

which are harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal

to prevent contents entering watercourses.

12.1. Toxicity

Toxicity Not available.

12.2. Persistence and degradability

Persistence and degradability Not available.

12.3. Bioaccumulative potential

Bioaccumulative potential Not available.

Partition coefficient log Pow: ca. 2.3 to 2.8

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

Not available.

assessment

12.6. Other adverse effects

Other adverse effects Not available.

Sterling Drilling & Tapping Spray

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated

because of the risk of an explosion.

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

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 label 2.1

IMDG class 2.1

ICAO class/division 2.1

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Sterling Drilling & Tapping Spray

14.6. Special precautions for user

EmS F-D, S-U

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 Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments Revised classification.

Revision date 30/03/2016

Revision 3

SDS number 12820

SDS status Approved.

Risk phrases in full R12 Extremely flammable.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Hazard statements in full H220 Extremely flammable gas.

H222 Extremely flammable aerosol. H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated 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. H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

H410 Very 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.