Safety Data Sheet

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 14-Sep-2020 **Revision Number 4**

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code W30910A
Product Name SWEPCO 812 Moly Dry Lube (Aerosol)

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

Recommended Use Lubricant

Uses advised against Any non-label use

1.3. Details of the supplier of the safety data sheet

Importer
NV Southwestern Petroleum Europe SA
Industrieweg 6
B-2390 Oostmalle
BELGIUM
www.swepcolube.com
Email: swepco@edpnet.be
Fax: 011-323-311-7277
Telephone: 011-323-312-3141

Manufacturer
NV Southwestern Petroleum Europe SA
Industrieweg 6
B-2390 Oostmalle
BELGIUM
www.swepcolube.com
Email: swepco@edpnet.be
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Fax: 011-323-311-7277
Telephone: 011-323-312-3141

1.4. Emergency telephone number

Emergency Telephone Belgium Office: 011-323-312-3141
US Office: +01-817-332-2336

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**112**

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Germ Cell Mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1A - (H350)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

2.2. Label elements

Product Identifier
SWEPCO 812 Moly Dry Lube (Aerosol)

Contains Butane, Distillates, petroleum, light distillate hydrotreating process, low-boiling

Signal Word
Danger

Hazard statements
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer

Precautionary Statements - EU (§28, 1272/2008)
P201 - Obtain special instructions before use
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308 + P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards
0% of the mixture consists of ingredient(s) of unknown toxicity.
58.5 % of the mixture consists of components(s) of unknown hazards to the aquatic environment
No other information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Molybdenum (IV) sulfide	215-263-9	1317-33-5	0 - 10%	No data available	None Required
Acetone	200-662-2	67-64-1	40 - 50%	Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H336) Flam. Liq. 2 (H225)	None Required
Distillates, petroleum, light distillate hydrotreating process, low-boiling	270-093-2	68410-97-9	0 - 10%	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	None Required
Propane	200-827-9	74-98-6	30 - 40%	Flam. Gas 1 (H220) Press. Gas	None Required
Butane	203-448-7	106-97-8	20 - 30%	Muta. 1B (H340) Carc. 1A (H350) Flam. Gas 1 (H220) Press. Gas	None Required

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

Ingestion Do not induce vomiting without medical advice. Consult a physician. If vomiting occurs, keep head below hips to prevent aspiration.

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

Symptoms No other information available.

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

Notes to Physician Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Water spray or fog. Dry chemical. Carbon dioxide (CO2). Foam. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable Extinguishing Media
Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products
Hydrogen sulfide (H2S) may be produced above 250° F (121° C). Decomposition and combustion products may be toxic.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions
Ensure adequate ventilation.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Use inert absorbent materials to confine spills and absorb spill.

Methods for Clean-up Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling
Contents under pressure. Do not puncture, crush or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage
Store containers below 120° F (49° C). Keep out of the reach of children. Store in cool/well-ventilated place.

Incompatible Materials
Strong oxidizing agents.

7.3. Specific end use(s)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits If there are exposure limits set for any components of this product, they will be listed below. Keep in mind, however, that these exposure levels are for pure concentrations of these ingredients:

Chemical Name	EU OEL	United Kingdom	France	Spain	Germany
Molybdenum (IV) sulfide 1317-33-5				VLA-ED: 10 VLA-ED: 5	-
Acetone 67-64-1		TWA: 1210 mg/m³ STEL: 1500 ppm STEL: 3620 mg/m³ TWA: 500 ppm	TWA: 500 ppm TWA: 1210 mg/m³ STEL: 1000 ppm STEL: 2420 mg/m³	VLA-ED: 500 ppm VLA-ED; 1210 mg/m³ VLA-ED	-
Propane 74-98-6				VLA-ED: 1000 ppm VLA-ED (listed under Aliphatic hydrocarbon gases and mixtures alkanes C1-C4)	-
Butane 106-97-8		TWA: 1450 mg/m³ STEL: 1810 mg/m³ TWA: 600 ppm STEL: 750 ppm	TWA: 800 ppm TWA: 1900 mg/m³	VLA-ED: 1000 ppm VLA-ED (listed under Aliphatic hydrocarbon gases and mixtures alkanes C1-C4)	-
Chemical Name	**Italy**	**Portugal**	**Netherlands**	**Finland**	**Denmark**
Molybdenum (IV) sulfide 1317-33-5	-	TWA: 0.5 mg/m³ TWA: 3 mg/m³ TWA: 10 mg/m³	-	TWA: 5 mg/m³	TWA: 10 mg/m³ TWA: 5 mg/m³
Acetone 67-64-1	TWA: 1210 mg/m³ TWA: 500 ppm	STEL: 750 ppm TWA: 500 ppm	STEL: 2420 mg/m³ TWA: 1210 mg/m³	TWA: 1200 mg/m³ TWA: 500 ppm STEL: 1500 mg/m³ STEL: 630 ppm	TWA: 250 ppm TWA: 600 mg/m³
Propane 74-98-6	-	TWA: 2500 ppm	-	TWA: 1500 mg/m³ TWA: 800 ppm STEL: 1100 ppm STEL: 2000 mg/m³	TWA: 1000 ppm TWA: 1800 mg/m³
Butane 106-97-8	-	TWA: 800 ppm	-	TWA: 1900 mg/m³ TWA: 800 ppm STEL: 1000 ppm STEL: 2400 mg/m³	TWA: 1200 mg/m³ TWA: 500 ppm
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Molybdenum (IV) sulfide 1317-33-5	STEL: 10 STEL: 30 MAK: 15 MAK: 5		NDSCh: 10 mg/m³ NDS: 4 mg/m³	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 10 mg/m³ TWA: 5 mg/m³ STEL: 10 mg/m³ STEL: 20 mg/m³
Acetone 67-64-1	STEL: 2000 ppm STEL; 4800 mg/m³	STEL: 1000 ppm STEL: 2400 mg/m³	NDSCh: 1800 mg/m³ NDS: 600 mg/m³	TWA: 125 ppm TWA: 295 mg/m³	TWA: 1210 mg/m³ TWA: 500 ppm

	STEL MAK: 500 ppm MAK; 1200 mg/m³ MAK	TWA: 500 ppm TWA: 1200 mg/m³			
Propane 74-98-6	STEL: 2000 ppm STEL (3 X 60 min); 3600 mg/m³ STEL (3 X 60 min) MAK: 1000 ppm MAK; 1800 mg/m³ MAK	STEL: 4000 ppm STEL: 7200 mg/m³ TWA: 1000 ppm TWA: 1800 mg/m³	NDS: 1800 mg/m³	TWA: 500 ppm TWA: 900 mg/m³	
Butane 106-97-8	MAK: 800 ppm MAK; 1900 mg/m³ MAK Ceiling: 1600 ppm Ceiling (3 X 60 min); 3800 mg/m³ Ceiling (3 X 60 min)	STEL: 3200 ppm STEL: 7200 mg/m³ TWA: 800 ppm TWA: 1900 mg/m³	NDSCh: 3000 mg/m³ NDS: 1900 mg/m³	TWA: 250 ppm TWA: 600 mg/m³	TWA: 1430 mg/m³ TWA: 600 ppm STEL: 1780 mg/m³ STEL: 750 ppm

Derived No Effect Level (DNEL) No other information available.

Predicted No Effect Concentration (PNEC) No other information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles.

Skin Protection Long sleeved clothing.

Environmental exposure controls No other information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Aerosol
Color Dark grey
Odor No other information available
Odor Threshold No other information available

Property	Values	Remarks • Method
pH	No other information available	
Melting point / freezing point	No other information available	
Boiling Point/Range	No other information available	
Flash Point	-60 °C	
Evaporation Rate	No other information available	
Flammability (solid, gas)	No other information available	
Flammability Limit in Air		
Upper flammability limit:	9.5	
Lower flammability limit:	0.8	
Vapor pressure	No other information available	
Vapor Density	> 1	
Relative density	No other information available	
Water Solubility	No other information available	
Solubility in other solvents	No other information available	
Partition coefficient	No other information available	
Autoignition Temperature	240 °C	
Decomposition temperature	No other information available	
Kinematic viscosity @40C	No other information available	
Dynamic viscosity	No other information available	
Explosive Properties	No other information available	
Oxidizing Properties	No other information available	

9.2. Other information

Softening Point No other information available
Molecular Weight No other information available

Volatiles, % Vol	No other information available
Density	No other information available
Bulk Density	No other information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions. Hazardous polymerization does not occur.

Explosion Data
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Hydrocarbons. Carbon monoxide. Hydrogen sulfide (H2S) may be produced above 250° F (121° C).

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	No data available.
Eye Contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	5,800.00
ATEmix (inhalation-dust/mist)	100.20

Unknown acute toxicity
100% of the mixture consists of ingredient(s) of unknown toxicity.
58.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
58.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Skin Corrosion/Irritation No other information available.

Serious eye damage/eye irritation No other information available.

Sensitization No other information available.

Mutagenic Effects No other information available.

Carcinogenic Effects No other information available.

Chemical Name	EU Carc*
Distillates, petroleum, light distillate hydrotreating process, low-boiling	Carc. 1B
Butane	Carc. 1A

Reproductive Effects No other information available.

STOT - single exposure No other information available.

STOT - repeated exposure No other information available.

Aspiration hazard No other information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Unknown Aquatic Toxicity 58.5 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Freshwater Fish	Water Flea
Acetone	-	4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No other information available.

12.3. Bioaccumulative potential

No other information available.

Chemical Name	Partition coefficient
Acetone	-0.24
Propane	2.3
Butane	2.89

12.4. Mobility in soil

Mobility in soil
No other information available.

12.5. Results of PBT and vPvB assessment

No other information available.

12.6. Other adverse effects

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-No	UN1950
14.2 Proper Shipping Name	Aerosols
14.3 Hazard Class	2
14.4 Packing Group	Not Regulated
Description	UN1950, Aerosols,2
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None
EmS No.	F-D, S-U
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No other information available

RID

14.1 UN-No	UN1950
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	2
ADR/RID-Labels	2
14.4 Packing Group	Not Regulated
Description	UN1950 Aerosols,2,,RID
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None
Classification Code	5A

ADR

14.1 UN-No	UN1950
14.2 Proper Shipping Name	Aerosols
14.3 Hazard Class	2
ADR/RID-Labels	2
14.4 Packing Group	Not Regulated
Description	UN1950 Aerosols,2,,ADR
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None
Classification Code	5A

IATA

14.1 UN-No	UN1950
14.2 Proper Shipping Name	Aerosols, flammable, toxic, containing substances in Division 6.1, Packing Group III
14.3 Hazard Class	2.1
Subsidiary Class	6.1
14.4 Packing Group	Not Regulated
Description	UN1950,Aerosols, flammable, toxic, containing substances in Division 6.1, Packing Group III,2.1
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

Section 15: REGULATORY INFORMATION

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

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

15.2. Chemical safety assessment
No other information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H340 - May cause genetic defects
H350 - May cause cancer
H220 - Extremely flammable gas
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
EUH066 - Repeated exposure may cause skin dryness or cracking

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value
*	Skin designation

Classification procedure
Calculation method

Prepared By Regulatory Compliance Department

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet