SAFETY DATA SHEET
CARLUBE SPRAY GREASE

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

1.1. Product identifier
Product name: CARLUBE SPRAY GREASE
Product No.: LSG200, MAC635, XSG400

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

1.3. Details of the supplier of the safety data sheet
Supplier: TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

Manufacturer: TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

1.4. Emergency telephone number
0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards: Flam. Aerosol 1 - H222+H229
Human health: Skin Irrit. 2 - H315; STOT SE 3 - H336
Environment: Aquatic Chronic 3 - H412

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

Environment
The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

2.2. Label elements
CARLUBE SPRAY GREASE

Detergent Labelling:

>= 30% Aliphatic hydrocarbons

Label In Accordance With (EC) No. 1272/2008

Signal Word Danger

Hazard Statements

H222+H229 Extremely flammable aerosol.
Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing vapour/spray.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P280 Wear protective gloves.
P403+233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P401+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P264 Wash contaminated skin thoroughly after handling.
P321 Specific treatment (see medical advice on this label).
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

2.3 Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Get medical attention if any discomfort continues. Remove affected person from source of contamination. General first aid, rest, warmth and fresh air. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation
Remove victim immediately from source of exposure. In case of inhalation of spray mist: Move person into fresh air and keep at rest. Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Immediately call an ambulance.

Ingestion
Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Skin contact
Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention promptly if symptoms occur after washing.

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

General information
The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.
CARLUBE SPRAY GREASE

Inhalation
May cause an asthma-like shortness of breath. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Drowsiness, dizziness, disorientation, vertigo. Vapours may cause drowsiness and dizziness. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

Ingestion
May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Due to the physical nature of this material it is unlikely that swallowing will occur.

Skin contact
Prolonged contact may cause redness, irritation and dry skin. May cause skin irritation/eczema.

Eye contact
Extreme irritation of eyes and mucous membranes, including burning and tearing. Vapour, spray or dust may cause chronic eye irritation or eye damage. May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed
No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Extinguishing media
Use: Foam, carbon dioxide or dry powder. Water spray. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
In case of fire, toxic gases (CO, CO2, NOx) may be formed. During fire, toxic gases (CO, CO2, NOx) are formed.

Unusual Fire & Explosion Hazards
Extremely flammable. Severe explosion hazard when vapours are exposed to flames. Risk of explosion if heated. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Heat may cause the containers to explode. Aerosol cans may explode in a fire.

Specific hazards
Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive air mixtures even at room temperature.

5.3. Advice for firefighters
Special Fire Fighting Procedures
Be aware of risk of fire re-starting, and risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Use water to keep fire exposed containers cool and disperse vapours.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and aerosol spray. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions
CARLUBE SPRAY GREASE

Avoid discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3. Methods and material for containment and cleaning up

For waste disposal, see section 13. If leakage cannot be stopped, evacuate area. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Remove sources of ignition. Collect with absorbent, non-combustible material into suitable containers.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Wear full protective clothing for prolonged exposure and/or high concentrations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not use in confined spaces without adequate ventilation and/or respirator. Mechanical ventilation or local exhaust ventilation may be required. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep upright. Protect against physical damage and/or friction. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Do not store for long periods or in large quantities. Store in a cool and well-ventilated place. Store in a dry place. Do not store near heat sources or expose to high temperatures.

Storage Class
Flammable liquid storage.

7.3. 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

<table>
<thead>
<tr>
<th>Name</th>
<th>STD WEL</th>
<th>TWA - 8 Hrs 1750 mg/m3</th>
<th>STEL - 15 Min 1250 ppm 2180 mg/m3</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETROLEUM GASES, LIQUEFIED</td>
<td>WEL</td>
<td>1000 ppm 1750 mg/m3</td>
<td>1250 ppm 2180 mg/m3</td>
<td>Carc</td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.
Carc = Capable of causing cancer and/or heritable genetic damage.

8.2. Exposure controls

Protective equipment
CARLUBE SPRAY GREASE

Engineering measures
Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of spray. Provide explosion proof ventilation for high concentrations.
Respiratory equipment
In case of inadequate ventilation use suitable respirator.
Hand protection
No specific hand protection noted, but gloves may still be advisable.
Eye protection
Wear approved, tight fitting safety glasses where splashing is probable.
Other Protection
Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures
Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. DO NOT SMOKE IN WORK AREA! When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid. Viscous</td>
</tr>
<tr>
<td>Colour</td>
<td>Brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range (°C)</td>
<td>Technically not feasible.</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.810 - 0.840</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-Value, Conc. Solution</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>5 cSt 20</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Odour Threshold, Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Odour Threshold, Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>Technically not feasible.</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>-12</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
CARLUBE SPRAY GREASE

Partition Coefficient
(N-Octanol/Water)
Not determined.
Oxidising properties
Not determined.

9.2. Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product. The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Not relevant

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials To Avoid
No incompatible groups noted.

10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Toxic Dose 1 - LD 50
>5840 (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT) mg/kg (oral rat)
Toxicological information
No information available.

Carcinogenicity:
Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:
No evidence of reproductive toxicity in animal studies

Target Organs
Central nervous system
Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

Target Organs
Skin
Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Aspiration hazard:
CARLUBE SPRAY GREASE

Not relevant, due to the form of the product.

General information
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation
Vapour from this chemical can be hazardous when inhaled. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Ingestion
No harmful effects expected in amounts likely to be ingested by accident.

Skin contact
Contains components which may penetrate the skin. Repeated exposure may cause skin dryness or cracking.

Eye contact
Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings
Irritant of eyes and mucous membranes. Gas or vapour is harmful on prolonged exposure or in high concentrations. CNS depressant.

Route of entry
Inhalation. Skin and/or eye contact.

Target Organs
Central nervous system Eyes Skin

Medical Symptoms
Skin irritation. Irritation of eyes and mucous membranes. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

Medical Considerations
Skin disorders and allergies. Pre-existing eye problems.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Dangerous for the environment if discharged into watercourses.

12.1. Toxicity
LC 50, 96 Hrs, Fish mg/l >13.4 mg/l (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)
Acute Toxicity - Fish
Not available.
EC 50, 48 Hrs, Daphnia, mg/l 3 mg/l (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)
Acute Toxicity - Aquatic Invertebrates
Not available.
IC 50, 72 Hrs, Algae, mg/l 10 mg/l (NAPHTHA (PETROLEUM) HYDROTREATED LIGHT)

12.2. Persistence and degradability
Degradability
No data available.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.
12.4. Mobility in soil

Mobility:
The product is insoluble in water.
Adsorption/Desorption Coefficient
Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1950
UN No. (IMDG) 1950
UN No. (ICAO) 1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class 2
ADR/RID/ADN Class Class 2: Gases
ADR Label No. 2.1
IMDG Class 2.1
ICAO Class/Division 2.1
Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group N/A
IMDG Packing group N/A
14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

EMS F-D, S-U

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

EU Legislation

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments
NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision Date 13/10/2014
Revision 6
Supersedes date 19/11/2012 v5
Safety Data Sheet Status Approved.
Risk Phrases In Full
R12 Extremely flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R11 Highly flammable
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.
CARLUBE SPRAY GREASE

Hazard Statements In Full

H315  Causes skin irritation.
H280  Contains gas under pressure; may explode if heated.
H222+H229  Extremely flammable aerosol.
            Pressurised container: May burst if heated.
H220  Extremely flammable gas.
H412  Harmful to aquatic life with long lasting effects.
H225  Highly flammable liquid and vapour.
H304  May be fatal if swallowed and enters airways.
H336  May cause drowsiness or dizziness.
H411  Toxic to aquatic life with long lasting effects.