FOOD SAFE LUBRICATING OIL

# SAFETY DATA SHEET

## According to EC Regulations 1907/2006 & 1272/2008

## SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING

**1.1 Product Name**: Food Safe Lubricating Oil **Order Code:** SOL-740-5960G

**1.2 Identified uses**: Light lubricant – general. Indirect food contact.

**Uses advised against** None known

**1.3 Details of supplier of sds**:

**Supplier**
Solent, Wigston, Leicester,
England, LE18 2FS
T: +44 (0) 116 288 8000
F: +44 (0) 116 288 8222

**Manufacturer**
New Tech Lubes Ltd, Unit 3
Harrison Drive Ind Est, Worksop,
Notts, S81 9RL

**E Mail (competent person)** info@newtechlubes.com

**1.4 Emergency Telephone**: +44 (0)1909 730900
(09.00-17.00 GMT Monday to Friday)

## SECTION 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance /mixture:**

**2.1.1 Regulation EC 1272/2008:**

Aerosol (cat 1) Extremely flammable

**2.2 Label elements:**

**Signal word(s):** Danger

**Hazard statements:**

H222 Extremely flammable aerosol
H229 Pressurised container: may burst if heated

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P211 Do not spray on an open flame or other ignition source.
P251 Pressurised container – do not pierce or burn, even after use
P261 Avoid breathing vapour/spray.
P271 Use only outdoors or in well-ventilated area.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50$^0$C

**2.3 Other hazards**

The mixture does not contain any vPvB or PBT substances.
Danger of bursting (explosion) when heated over 50$^0$C.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**3.2 Mixture:**

| HAZARDOUS INGREDIENTS | %W/W | CAS $N_O$ EC $N_O$ | REACH REG NO | HAZARD PICT/STATEMENTS |
|---|---|---|---|---|
| Hydrocarbon aerosol propellant ( <0.1 butadiene) | 10-25 | 68476-85-7 270-704-2 | N/A | Flam gas1, H220 |
| Carbon dioxide | <5 | 124-38-9 204-696-9 | N/A | ( EU exposure limits apply) |

Contains no active materials classified as hazardous under CLP regulations

**3.3 Additional information**

See sect 16 for full text of H phrases.

## SECTION 4. FIRST AID MEASURES

**4.1 Description of first aid measures:**

Eyes: Remove contact lenses. Rinse with water immediately for at least 10 minutes. Obtain medical attention if any discomfort continues.

Skin: Remove severely contaminated clothing. Wash with soap and water. Obtain medical attention if any discomfort occurs.

Inhalation: Move to fresh air. Provide rest and warmth. If effects occur, obtain medical attention.

Ingestion: If swallowed, drink plenty of water. Do not induce vomiting. Obtain immediate medical attention.

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

The following symptoms may be apparent depending upon the routes of absorption as detailed in 4.1 above; eye irritation, headache, nausea, dizziness, respiratory tract irritation..
Resultant acute /long-term effect to the CNS, dermatitis, vomiting, diarrhoea and are further detailed in sect 11

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

Excessive exposure may aggravate pre-existing asthmatic and other respiratory disorders.

## SECTION 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing media**:

Suitable extinguishing media: Powder, alcohol resistant foam. $CO_2$, dry chemicals.
Unsuitable extinguishing media: Water stream

**5.2 Special hazards arising from the substance or mixture**

May produce **o**xides of Carbon and other combustion products. Danger of explosion when heated. Contents will add to fuelling of fire. Solvent vapours may form explosive mixtures with air.

**5.3 Advice for firefighters**

Wear SCBA. Keep containers cool by spraying with water. Ventilate closed spaces before entering

.

## SECTION 6. ACCIDENTAL RELEASE MEASURES:

**6.1 Personal precautions, protective equipment and emergency procedures**

Remove possible sources of ignition. Ensure sufficient ventilation. Wear suitable protective equipment as in Sect 8.

**6.2 Environmental precautions.**

Prevent from entering drainage systems or water courses.

**6.3 Methods and material for containment and clearing**

If spray or gas escapes, ensure plenty of fresh air / ventilation. Absorb spilled contents on inert material such as sand or earth - collect and dispose of as in Sect 13. Scrub area with detergent and water to prevent slippery residues.

**6.4 Reference to other sections**

For PPE and disposal see sections 8 and 13 respectively.

## SECTION 7. HANDLING AND STORAGE:

**7.1 Precautions for safe handling**

Only use in areas with good ventilation. Keep away from any sources of ignition including live electrics. Do not use on hot surfaces .Wash hands after use and before eating. Remove contaminated clothing.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, ventilated area. Keep protected from direct sunlight and temperatures above $50^0$C.

### 7.3 Specific end use (s)

For general lubricating oil applications and such uses for indirect food contact equipment and machinery

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Workplace exposure limits

| Ingredients | LTEL 8 Hr | STEL 15 min | Note |
|---|---|---|---|
| Hydrocarbon aerosol propellant ( <0.1 butadiene) | 1000 ppm | 1250 ppm | EH40 |
| Oil mists | 5mg/$m^3$ | | NIOSH |
| Carbon dioxide | 5000 ppm | 15000 ppm | EH40 |

Biological limit value - Not established
PNECs, DNELs - Not established

### 8.2 Exposure controls

**8.2.1** Appropriate engineering controls - Ensure good ventilation /local exhaust ventilation to keep airborne contaminants below exposure limits.

**8.2.2** Personal protective equipment:
Eye / face protection - Safety goggles/glasses if there is a risk of eye contact..
Skin protection – Nitrile gloves (EN 374). See glove manufacturer data for glove selection and breakthrough time for use conditions.
Respiratory protection - Not required under normal circumstances. Type RPE if required.
Thermal hazards – Not applicable

**8.2.3** Environmental exposure controls – See sects 6,12, 13.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Appearance/physical state: | Aerosol |
| Colour: | Clear, colourless |
| Odour: | LPG |
| Odour threshold: | Not established |
| pH: | Not applicable |
| Melting /freezing point: | < $0^0$C |
| IBP /boiling range: | < $0^0$C |
| Flash Point | <$0^0$ C |
| Evaporation rate: | Not established |
| Flammability (gas): | Extremely flammable |
| Upper /lower explosive limits: | 1.8% - 9.4% by vol |
| Vapour pressure: | Approx 5 bar at $20^0$C |
| Vapour density: | Not established |
| Relative density: | Not applicable |
| Solubility: | Negligible water miscibility |
| Partition coefficient (n-octanol/water): | Not established |
| Auto-ignition temperature: | Not established |
| Decomposition temperature: | Not established |
| Viscosity: | Not applicable |
| Explosive properties: | Not established |
| Oxidising properties: | None |

## SECTION 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reactions known under normal conditions of use.

**10.2 Chemical Stability**

Stable under proper storage and handling conditions.

**10.3 Possibility of chemical reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

Heat, flame and other ignition sources .Pressurised container: Protect from sunlight and do not Expose to temperatures exceeding 50$^0$C. Do not pierce or burn even after use.

**10.5 Incompatible materials**

Avoid contact with strong oxidising agents

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**10.6 Hazardous decomposition products**

None when used as directed**.**

## SECTION 11 TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**11.1.2. Mixtures**

Acute toxicity
Irritation
Corrosivity
Sensitisation
Repeated dose toxicity
Carcinogenicity
Mutagenicity
Toxicity for reproduction

} No data available

**Other information**

May cause irritation and discomfort to eyes. Prolonged or repeated contact may cause irritation and dermatitis. High concentrations of vapours may cause drowsiness and dizziness Ingestion may cause irritation to mouth and cause damage to respiratory system.

**Synthetic base oil**

| Toxicity / Effect | Endpoint | Value | Organism | Method | Notes |
|---|---|---|---|---|---|
| Acute Tox -Oral | LD50 | >2000mg/kg | | | Analogous compounds |
| Acute Tox- Derm | LD50 | >2000mg/kg | | | Analogous compounds |
| Skin corrosion / Irritation | | | | | Not irritating |
| Serious eye damage / Irritation | | | | | Irritating |
| Sensitisation – Respiratory or Skin | | | | | Not sensitising |
| Subacute, subchronic and prolonged toxicity | | | | | No data |

**Hydrocarbon aerosol propellant (<0.1% Butadiene)**

| General |
|---|
| In low concentrations may cause narcotic effects. Symptoms include dizziness, headache, nausea and loss of co-ordination. |

## SECTION 12 ECOLOGICAL INFORMATION:

**Mixture**

**12.1 Toxicity**
**12.2 Persistence and degradability**
**12.3 Bioaccumulative potential**
**12.4 Mobility in soil**
**12.4 results of PBT and vPvB assessment**
**12.6 Other adverse effects**.

} No data available

**Synthetic base oil**

**12.1 Toxicity**

| Test | Duration | Organism | Method | Result | Notes |
|---|---|---|---|---|---|
| Aquatic Toxicity | 96 hrs | Rainbow trout | LL50 | >1000mg/l | Very low toxicity |
| Toxicity to algae | 72 hrs | Algae | EC 50 | >1000mg/l | |

**12.2 Persistence, Degradability and Bioaccumulation Potential.** Not readily biodegradable
**12.3 Bioaccumulative potential** – No data
**12.4 Mobility in soil** Material does not evaporate from surface soil or water**.** It is insoluble in water.
**12.5 Results of PBT and vPvB assessment -** Contains no PBT or vPvB components
**12.6 Other adverse effects** - Water Hazard Class WGK=1 (Germany)

**Hydrocarbon aerosol propellant (<0.1% Butadiene)**

| General |
|---|
| No known ecological damage. |

## SECTION 13 DISPOSAL CONSIDERATIONS:

**13.1 Waste Treatment Methods**

Empty containers must not be burnt or incinerated because of explosion hazard. Dispose of in accordance with local authority guidelines. Empty aerosol products may be recyclable via local authority.

## SECTION 14. TRANSPORT INFORMATION:

**14.1 UN number** 1950
**14.2 UN proper shipping name** Aerosols
**14.3 Transport hazard class** 2 (UN / IMDG)
**ADR Classification code** 5F
**14.4 Packing group** None
**14.5 Environmental hazards** Not applicable

## SECTION 15. REGULATORY INFORMATION:

**15.1 Safety, health and environmental regulations/legislation specific for the mixture**

REACH - 1907/2006
CLP - 1272/2008
DPD - 199/45/EC
COSHH - 2002 (as amended)

**15.2 Chemical safety assessment**

A CSA has not been carried out for this mixture.

## SECTION 16. OTHER INFORMATION:

Contains only FDA listed ingredients. NSF H1 registered

**Legend**

LTEL Long term exposure limit

STEL (SE) Short term exposure limit (Single exposure)
STOT Specific target organ toxicity
PNEC Predicted no effect concentration
DNEL Derived no effect level

**Hazard statements –referred to in sect 3**

H220 Extremely flammable gas

**Classification methods used to derive classification of mixture**

Classification according to calculation procedure detailed in EC1272/2008

**Additional information**

This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.