



FOOD SAFE HIGH-TECH GREASE

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:** High Tech Grease **Order Code:** SOL-740-6220C
 1.2 **Identified uses:** Lubricant, General machinery, Indirect food contact.
Uses advised against Do not use on live electrics – potential ignition.
 1.3 **Details of supplier of sds:** **Supplier** Solent, Wigston, Leicester, England, LE18 2FS **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:** T: +44 (0) 116 288 8000 +44 (0)1909 730900
 F: +44 (0) 116 288 8222 (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
 Skin irritant (cat 2) Causes skin irritation.
 Acute toxicity (cat 3) May cause drowsiness or dizziness
 Aquatic chronic (cat 2) Harmful to aquatic life with long lasting effects.

2.2 **Label elements:**



Signal word(s): Danger

Hazard statements:

H222 Extremely flammable aerosol
 H229 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:

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
 P211 Do not spray on an open flame or other ignition source..
 P243 Take precautionary measures against static discharge.
 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°C

2.3 **Other hazards**

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 **Mixture:**

HAZARDOUS INGREDIENTS	%W/W	CAS No EC No	REACH REG NO	HAZARD PICT/STATEMENTS
Hydrocarbon aerosol propellant (<0.1 butadiene)	25-50	68476-85-7 270-704-2	N/A	Flam gas1, H220

Hydrocarbons,C7-C9 Isoalkanes <2% aromatics	10-25	- . 921-728-3	01-2119471305-42	Flam liq 3, H226 Asp tox 1, H304 Skin irrit 3. H316 Aq chronic 2, H411 EUH066
Propan-2-ol	5-10	67-63-0 200-661-7	01-2119457558-25	Flam liq 2, H225 Eye irritant 2, H319 STOT SE3, H336
Carbon dioxide	<5	124-38-9 204-696-9	N/A	(EU exposure limits apply)

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 asthma and other respiratory disorders.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Powder, alcohol resistant foam. CO2, dry chemicals.

Unsuitable extinguishing media: Water stream

5.2 Special hazards arising from the substance or mixture

May produce oxides 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. Take precautions against static discharge. 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°C.

7.3 Specific end use (s)

For general lubrication 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
Hydrocarbons, C7-C9 Isoalkanes <2% aromatics	800 mg/m ³	–	EH40
Propan-2-ol	400 ppm	500 ppm	EH40
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance/physical state:	Aerosol
Colour:	Hazy, off-white
Odour:	Mild, characteristic solvent
Odour threshold:	Not established
pH:	Not applicable
Melting /freezing point:	< 0°C
IBP /boiling range:	< 0°C
Flash Point	<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°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°C. Do not pierce or burn even after use.

10.5 Incompatible materials

Avoid contact with strong oxidising agents

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	}	No data available
Irritation		
Corrosivity		
Sensitisation		
Repeated dose toxicity		
Carcinogenicity		
Mutagenicity		
Toxicity for reproduction		

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.

Hydrocarbons,C7-C9 Isoalkanes <2% aromatics

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox -Oral	LD50	>5000mg/kg	Rat	OECD 401	Minimally toxic
Acute tox-Inhal	LC50	>21mg/l	Rat	OECD 403	Minimally toxic
Acute Tox- Derm	LD50	>2000mg/kg	Rabbit	OECD 402	Minimally toxic
Skin corrosion / Irritation				OECD 404	Moderately irritating to skin with prolonged exposure
Serious eye damage / Irritation				OECD 405	May cause mild discomfort to eyes
Sensitisation – Respiratory or Skin				OECD 406	Not expected to be respiratory or skin sensitizer.

Aspiration					May be fatal if swallowed and enters airways
Germ Cell Mutagenicity				OECD 471	Not expected to be germ cell mutagen.
Carcinogenicity					Not expected to cause cancer
Reproductive toxicity				OECD 414	Negative, analogous conclusion
Lactation					Not expected to cause harm to breast-fed children
Specific Target Organ Toxicity STOT-SE					May cause drowsiness or dizziness
STOT-repeated exposure				OECD 413	Not expected to cause organ damage from prolonged / repeated exposure

Propan-2-ol

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox -Oral	LD50	>2000mg/kg	Rat		
Acute Tox- Derm	LD50	>2000mg/kg	Rabbit		
Skin corrosion / Irritation			Rabbit		Not irritating
Serious eye damage / Irritation			Rabbit		Irritating
Sensitisation – Respiratory or Skin			Guinea pig	Buehler test	Not sensitising
Germ Cell Mutagenicity					
Genotox in vitro				Ames test, Salmonella typhi – with/without	Not mutagenic

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

Hydrocarbons, C7-C9 Isoalkanes <2% aromatics

12.1 Toxicity – Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Test	Duration	Organism	Method	Result	Notes
Aquatic -acute	48 hrs	Daphnia magna	EL50	2.4mg/l	Analagous material
Aquatic -acute	72 hrs	Pseudokirchneriella	NOELR	6.3mg/l	Analagous material

		subcapitata			
Aquatic -acute	72 hrs	Pseudokirchneriella subcapitata	EL50	29mg/l	Analogous material
Aquatic -acute	96 hrs	Oncorhynchus mykiss	LL50	18.4mg/l	Analogous material
Aquatic -chronic	21 days	Daphnia magna	NOEC	0.17mg/l	Analogous material
Aquatic -chronic	21 days	Daphnia magna	LOEC	0.32mg/l	Analogous material

12.2 Persistence and degradability – Expected to be inherently biodegradable. Transformation due to hydrolysis and photolysis not expected to be significant. Expected to rapidly degrade in air

Media	Test type	Duration	Result
Water	Ready biodegradability	28 days	22% degraded

12.3 Bioaccumulative potential – Not determined.

12.4 Mobility in soil – Highly volatile, will rapidly partition to air. Not expected to partition to sediment and wastewater solids..

12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components

12.6 Other adverse effects – Material is classified as a VOC.

Propan – 2 - ol

12.1 Toxicity

Test	Duration	Organism	Method	Result	Notes
Toxicity to fish	48 hrs	Leuciscus idus melanotus	LC50	>100mg/l	Static Lit value
Toxicity to daphnia /other aq invertibrates	48 hrs	Daphnia magna	EC50	>100mg/l	Static Lit value
Toxicity to algae	72 hrs	Scenedesmus subspicatus	EC 50	>100mg/l	Static Lit value

12.2 Persistence, Degradability and Bioaccumulation Potential.

Media	Test type	Duration	Result	Notes
Water	Ready biodegradability	10 days (content 7mg/l)	>70%	Lit value

12.3 Bioaccumulative potential – No data available

12.4 Mobility in soil - No data available

12.5 Results of PBT and vPvB assessment - Contains no PBT or vPvB components

12.6 Other adverse effects - No data available

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. InS 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
H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H316 Causes mild skin irritation
H319 Causes serious eye irritation
H411 Toxic to aquatic life with long-lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

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.