New Tech Lubes Limited

SAFETY DATA SHEET

According to the REACH etc (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended NTL SDS 103-1.2 August 2024



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HI GRAF GREASE

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

1.1 Product name: Hi Graf Grease

1.2 Identified use(s): Lubricant, General machinery

Use(s) advised against: None known.

1.3 Details of supplier of SDS: New Tech Lubes Ltd, Unit 2-4 Harrison Drive Ind Est, Worksop

Notts, S81 9RL

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

1.4 Emergency telephone: +44 (0)1909 730900 (08.00 -16.00 GMT Monday to Friday)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture: Not classified.

2.2 Label elements: Not classified.

2.3 Other hazards: The mixture does not contain any vPvB or PBT substances.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable

3.2 Mixtures: Not classified

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: Rinse mouth out with water. Get medical advice/attention if you feel unwell. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. Seek medical attention if irritation develops.

Eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Obtain medical attention is pain, blinking or redness persists. If eye irritation persists: Get medical advice/attention.

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

Inhalation: Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation. Ingestion: None under normal conditions. May cause irritation to the digestive tract. Ingestion may cause nausea and vomiting.

Skin contact: Prolonged, or repeated, contact may cause dryness of the skin. Slight irritation. Cracking of the skin

Eye contact: May be slightly irritating to eyes.

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

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Water fog. Dry chemical powder. Alcohol-resistant foam. Carbon dioxide (CO2). 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: Will ignite if exposed to intensive heat. Not expected to be a fire/explosion hazard under normal conditions of use. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nirogen oxides (NOx) (as NO2). Sulfur oxides (SOx). Phosphorus oxides. Hydrogen sulphide. Metal oxides.
- **5.3** Advice for fire fighters: Evacuate area. Eliminate all sources if safe to do so. Use water spray or fog for cooling exposed containers. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures: Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and public waters. Do not attempt to take action without suitable protective equipment. For further information refer to section 8. Ventilate spillage area. Evacuate unnecessary personnel. Avoid any direct contact with the product. Stop leaks if it can be done without personal risk. Eliminate all ignition sources if safe to do so.
- **6.2 Environmental precautions:** Prevent from entering drainage systems or water courses.
- 6.3 Methods and material for containment and clearing: For a large spillage, contain the spillage by bunding. Clear up spills immediately and dispose of water safely. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. May be reused following decontamination. Clean contaminated surfaces with an excess of water. Dispose of materials or solid residues at an authorised site.
- **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: Empty containers retain product residue and can be hazardous. Wear personal protective equipment. For further information refer to section 8. Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe fumes from fires or vapours from decomposition. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure good ventilation of the work station. Spilled material may present a slipping hazard. Clean spills promptly. Routine housekeeping should be instituted. Do not eat, drink and smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
- 7.2 Conditions for safe storage, including any incompatibilities: Store in a well-ventilated place. Keep cool. Store away from oxidising agents. Protect from sunlight. Store: store in original container. Always keep in containers made of the same material as the supply container. Do not store in unlabelled containers. Opened containers must be carefully closed and kept upright to avoid leakage. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Empty containers retain product residue and can be hazardous. Max storage period: 5 years. Storage temperatures: 0-40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from strong oxidisers, strong bases, strong acids. Store at ambient temperature. Keep container tightly closed and dry. Suitable container materials: mild steel, certain plastic materials.
- 7.3 Specific end use(s): The identified use(s) for this product are detailed in Section 1.2.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

National occupational exposure and biological limit values:

Graphite (7782-42-5)	
Ireland – Occupational Exposure Limits	
Local name	Graphite (all forms except fibres)
OEL TWA [1]	2mg/m³ R (Respirable Fraction)

Regulatory reference	Chemical Agents Code of Practice 2021
Carbon black (1333-86-4)	
Ireland – Occupational Exposure Li	mits
OEL TWA [1]	3mg/m³ Inhalable Fraction
OEL STEL	15mg/m³ Calculated, Inhalable Fraction
United Kingdom – Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	3.5mg/m³
WEL STEL (OEL STEL)	7mg/m³

8.2 Exposure controls:

Appropriate engineering controls: Ensure good ventilation of the work station. Avoid spills. Do not walk on or roll equipment over spills.

Personal protective equipment: Eye protection should only be necessary where liquid could be splashed or sprayed. If the ventilation is suitable, it is not essential to wear respiratory equipment. Use barrier cream. Boots, gloves, goggles.

Personal protective symbols:



Eye/face protection: Safety glasses.

Туре	Field of application	Characteristics	Standard
Safety glasses, safety goggles	Droplet, dust, fine dust	Clear, with side shields	EN 166

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

Туре		Material	Permeation	Thickness	Penetration	Standard
Dispos	sable gloves	Nitrile rubber (NBR)	2 (>30 minutes)	>0.09	2 (<1.5)	EN ISO 374-1

Respiratory protection: If the ventilation is suitable, it is not essential to wear respiratory equipment. In case of insufficient ventilation, wear suitable respiratory equipment.

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Particle filter, gas/vapour filter	Vapour protection	EN 143

Thermal hazards: No additional information available

Environmental exposure controls: Avoid release to the environment

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state: Solid Appearance: Paste Colour: Black

Odour: Almost odourless

Odour threshold: No information available.

pH: Not applicable.

Melting point: >280°C ASTM D2265

Initial boiling point and range: No information available

Flash point: >215°C ASTM D93

Evaporation rate: No information available Evaporation factor: No information available Flammability (solid, gas): Non flammable

Upper/lower flammability or explosive limits: Not applicable

Other flammability: No information available Vapour pressure: No information available Vapour density: No information available Relative density: 1.05 – 1.15 @ 250°C Bulk density: No information available Solubility(ies): Insoluble in water

Partition coefficient n-octanol/water (Log Kow): No information available

Auto-ignition temperature: Not applicable

Decomposition temperature: No information available Viscosity: 125mm²/s @ 40°C. Major component

Explosive properties: Not considered to be explosive

Explosive under the influence of a flame: Not considered to be explosive

Oxidising properties: Not applicable

SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity: No test data specifically related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability: Stable under proper storage and handling conditions.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.
- 10.4 Conditions to avoid: None under recommended storage and handling conditions (see section 7).
- **10.5** Incompatible materials: Oxidising agents.
- 10.6 Hazardous decomposition products: On heating or during combustion may release: Carbon oxides (CO, CO2), nitrogen oxides (NOx) (as NO2), sulphur oxides (SOx), hydrogen sulphide, phosphorus oxide, metal oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Toxicological effects: Not regarded as a health hazard under current legislation.

Acute toxicity – oral: Not classified Acute toxicity – dermal: Not classified Acute toxicity – inhalation: Not classified

Graphite (7782-42-5)	Graphite (7782-42-5)	
LD50 oral – Rat	>2000mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD	
	Guideline 423 (Acute Oral toxicity – Acute Toxic Class Method)	
LC50 inhalation – Rat	>2000mg/m³ Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute	
	Inhalation Toxicity)	

Carbon black (1333-86-4)	
LD50 oral – Rat	>8000mg/kg (Equivalent to OECD TG 401)

Skin corrosion/irritation: Not classified

Carbon black (1333-86-4)	
рН	4-11

Serious eye damage/irritation: Not classified

Carbon black (1333-86-4)	
pH	4-11

Respiratory sensitisation: Not classified Skin sensitisation: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified STOT – single exposure: Not classified STOT – repeated exposure: Not classified

Carbon black (1333-86-4)	
LOAEC (inhalation, rat,	0.0071mg/l air
dust/mist/fume, 90 days)	Animal: rat, Animal sex: male

Carbon black (1333-86-4)	
NOAEL (oral, rat, 90 days)	>1000mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated
	Dose 90-day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat,	0.0011 mg/l air Animal: rat, Animal sex: male
dust/mist/fume, 90 days)	

Aspiration hazard: Not classified

Hi Graf	
Viscosity, kinematic	125mm²/s @ 40°C. Major component

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Ecology – general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified Hazardous to the aquatic environment, long-term (chronic): Not classified

Not rapidly degradable

Graphite (7782-42-5)	
LC50 - Fish [1]	>100mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 – Crustacea [1]	>100mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	>100mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous
	names: Raphidocelis subcapitata, Selenastrum capricornutum)

Carbon black (1333-86-4)	
LC50 - Fish [1]	125mm²/s @ 40°C. Major component
EC50 – Other aquatic organisms	>5600ml/l Daphnia magna: EC50 (24hr) (Method: OECD 202)
[1]	
EC50 72h - Algae [1]	>10000mg/l Test organisms (species): Desmodesmus subspicatus (previous name:
	Scenedesmus subspicatus)
EC50 72h - Algae [2]	>10000mg/l Test organisms (species):

- 12.2 Persistence and degradability: No additional information available
- **12.3** Bio-accumulative potential: No additional information available
- **12.4 Mobility in soil:** No additional information available
- 12.5 Results of PBT and vPvB assessment: No additional information available
- **12.6 Endocrine disrupting properties:** No additional information available
- 12.7 Other adverse effects: No additional information available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Recycle the material as far as possible. Recycle product or dispose safely. Recycle or dispose of in compliance with current legislation. Dispose of contents/container in accordance with licensed collector's sorting instructions. Assure that emissions are compliant with all applicable air pollution control regulations. Disposal must be done in according to official regulations.

SECTION 14. TRANSPORT INFORMATION

- **14.1 UN number:** Not applicable.
- 14.2 UN proper shipping name: Not applicable.
- **14.3** Transport hazard class: Not applicable.
- **14.4 Packing group:** Not applicable.
- **14.5** Environmental hazards: Not applicable.
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL 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 Regulations:

REACH Annex XVII (Restriction List): Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List): Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC): Contains no substance(s) listed on the REACH Candidate List PIC Regulation (Prior Informed Consent): Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants): Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009): Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (273/2004): Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2 Chemical safety assessment: No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

Classification methods used to derive classification of mixture: Classification according to calculation procedure detailed in EC1272/2008

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate BCF: Bioconcentration factor BLV: Biological limit value

BOD: Biochemical oxygen demand (BOD) COD: Chemical oxygen demand (COD) DMEL: Derived Minimal Effect level DNEL: Derived-No Effect Level

EC-No: European Community number EC50: Median effective concentration

EN: European Standard

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50: Median lethal dose

LOAEL: Lowest Observed Adverse Effect Level NOAEC: No-Observed Adverse Effect Concentration

NOAEL: No-Observed Adverse Effect Level NOEC: No-Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit
PBT: Persistent Bio-accumulative Toxic
PNEC: Predicted No-Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet STP: Sewage treatment plant

ThOD: Theoretical oxygen demand (ThOD)

TLM: Medial Tolerance Limit VOD: Volatile Organic Compounds

CAS-No: Chemical Abstract Service number

N.O.S: Not Otherwise Specified

vPvB: Very Persistent and Very Bio-accumulative

ED: Endocrine disrupting properties

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.