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FS ANTI SEIZE

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

1.1	**Product Name**:	FS Anti Seize
1.2	**Identified uses**:	Lubricant, General machinery, Indirect food contact.
	Use's advised against	None known.
1.3	**Details of supplier of SDS**:	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:

Aquatic chronic (cat 2) Toxic to aquatic life with long lasting effects.

2.2 Label elements:

Signal word(s): None required

Hazard statements:

H411. Toxic to aquatic life with long lasting effects

Precautionary statements:

P273 Avoid release to the environment
P501 Dispose of containers in accordance with regulations

2.3 Other hazards

The mixture does not contain any vPvB or PBT substances.

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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
Zinc Oxide	10-25	1314-13-2 215-222-5		Aquatic acute 1 H400 Aquatic chronic 1 H410
Polytetrafluoroethylene (PTFE)	<10	9002-84-0		Not classified under GHS

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: Unlikely a problem. 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.

Skin/Eye**:** May be mild irritation at site of contact
Ingestion: Possible soreness and reddening of throat & mouth

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

No data available.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Powder, alcohol resistant foam. CO2, dry chemicals as appropriate to surrounding fire.

5.2 Special hazards arising from the substance or mixture

May produce oxides of Carbon and other combustion products. Very high temperatures may release Hydrogen fluoride and other fluorinated compounds

5.3 Advice for firefighters

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

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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

Collect in appropriate lidded container for disposal

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

Avoid direct contact. 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 only in original packaging.

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 – None established other than for components as respiratory dust
Biological limit value - Not established
PNECs, DNELs - Not established

8.2 Exposure controls

8.2.1 Appropriate engineering controls – Not applicable.

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. .

8.2.3 Environmental exposure controls – See sections 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:	Viscous grease
Colour:	White
Odour:	Negligible
Odour threshold:	Not established
pH:	Not applicable
Melting /freezing point:	Not established
IBP /boiling range:	Not established
Flash Point	Not established
Evaporation rate:	Not established

Flammability (gas):	Not flammable
Upper /lower explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	Not established
Solubility:	Not water miscible
Partition coefficient (n-octanol/water):	Not established
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
Viscosity:	Not established
Explosive properties:	Not established
Oxidising properties:	Not established

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

Very high temperatures

10.5 Incompatible materials

Avoid contact with strong oxidising agents, strong reducing agents

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10.6 Hazardous decomposition products

Toxic fumes of Carbon and Fluorine compounds at high temperatures.

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 skin irritation and dermatitis.
Ingestion may cause irritation to mouth and throat.

Zinc oxide

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox -Oral	LD50	>15000mg/kg	rat	OECD 401	
Acute tox-Inhal	LC50	>5.7mg/L	Rat	4hr	

Acute Tox- Derm	LD50	>2000mg/Kg	Rat		
Skin corrosion / Irritation			Rabbit	OECD 404	Non irritant
Serious eye damage / Irritation			Rabbit	OECD 405	Non irritant
Carcinogenicity					Not listed as a carcinogen

PTFE

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute tox-oral	LD50	>11,280mg/Kg	Rat		
Skin irritation			Rabbit/human		No irritation
Skin sensitisation			Human	Patch test did not demonstrate sensitisation	
Repeated dose toxicity			Rat	No significant effects found	

SECTION 12 ECOLOGICAL INFORMATION:

Mixture

12.1 Toxicity — Toxic to aquatic life with long lasting effects

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

Zinc Oxide

12.1 Toxicity – Very 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	0.3mg/l	
Aquatic -acute	72 hrs	Selenastrum capriccornutum	EC50	170mcg/L	

12.2 Persistence and degradability – The products of degradation are less toxic than the material itself. Not relevant for inorganic substances. Does not cause biological oxygen deficit

12.3 Bioaccumulative potential – No data.
12.4 Mobility in soil – Partially soluble in water. May spread in the aquatic environment..
12.5 Results of PBT and vPvB assessment – Contains no PBT or vPvB components
12.6 Other adverse effects – Is toxic to aquatic organisms. Takes a very long time to break down.

PTFE

General
No known ecological damage.

SECTION 13 DISPOSAL CONSIDERATIONS:

13.1 Waste Treatment Methods

Transfer to suitable large container for disposal in accordance with local authority guidelines via specialised disposal company.

SECTION 14. TRANSPORT INFORMATION:

14.1	**UN number**	None **-** Not classified as dangerous for carriage
14.2	**UN proper shipping name**	
14.3	**Transport hazard class**	
	ADR Classification code	
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

H410	Very toxic to aquatic life with long-lasting effects
H00	Very toxic to aquatic life

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.