



SAFETY DATA SHEET

FIX 247 SILICONE LUBRICANT AEROSOL

SECTION 1; IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name FIX 247 SILICONE
 Product No. SIL400/500

1.2. Relevant identified uses of the substances or mixture and uses advised against

Identified uses Spray lubricant

1.3. Details of the supplier of the data sheet

Supplier AFT Aerosols Ltd
 Unit 8, Berryhill industrial estate
 Berryhill road
 Fenton
 Stoke- on- Trent
 ST4 2NL

1.4. Emergency telephone number

+44 (0) 111

SECTION 2; HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards	Extremely Flam. Aerosol- H222: H229
Human health	Asp Tox 1 – H304 Skin Irrit 2 – H315 STOT SE 3 - H336
Environment	Aquatic Chron 2 – H411

The full text for all Hazard statements are displayed in Section 16.

2.2 Label Elements

Label in Accordance with (EC) No. 1272/2008

Contains: Hydrocarbons, C6,isoalkanes, <5% n-hexane
 Hydrocarbons, C7,n-alkanes, isoalkanes,cyclics



Signal word

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container; may burst if heated

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

P102	Keep out of reach of children
P210	Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No Smoking.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray/vapour/mist
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection
P501	Dispose of contents/container in accordance with Local Regulations.

Supplementary precautionary statements

P273	Avoid release to the environment.
P264	Wash skin thoroughly after handling.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P331	Do NOT induce vomiting.
P405	Store locked up.
P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplement label information**2.3. Other hazards**

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on naked flame or any incandescent material – NO SMOKING.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

PETROLEUM GASES LIQUIFIED CAS- No.: 68476-85-7 Classification (EC 1272/2008) Flam. Gas 1- H220	EC No.: 270-704-2	50-65%
Hydrocarbons, C6, isoalkanes, <5% n-hexane CAS No: 64792-49-0 Classification (EC 1272/2008) STOT SE 3 - H336	EC No: 931-254-9	Registration number:01-2119484651-34-xxxx 15-20%

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid skin and eye contact. Ensure adequate ventilation. Wear personal protective equipment.

6.2 Environmental precautions

Avoid discharge into the environment if possible.

6.3 Methods and material for containment and cleaning up

Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth, and place into containers.

6.4 Reference to other sections

Wear protective clothing as described in section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

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**

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
PETROLEUM GASES LIQUIFIED	WEL	1000 ppm (Sk)	1750 mg/m ³ (Sk)	1250 ppm(Sk)	2180 mg/m ³ (Sk)	
n-HEXANE	WEL	20 ppm	71 mg/m ³			

WEL = Workplace exposure limit.

Derived No effect Level (DNEL)

Hydrocarbons, C7,n-alkanes, isoalkanes,cyclics

Type	Exposure Route	Derived No effect Level	Safety Factor
Long Term Systemic health effects Worker	Inhalation	2085 mg/m ³	
Long Term Systemic health effects Worker	Dermal	300 mg/kg bw/d	
Long Term Systemic health effects Consumer	Inhalation	447 mg/m ³	
Short Term Local Health effects Consumer	Dermal	6149mg/kg bw/d	
Long Term Systemic health effects Consumer	Oral	149 mg/kg bw/d	

Hydrocarbons, C6,isoalkanes, <5% n-hexane

Type	Exposure Route	Derived No effect Level	Safety Factor
Long Term Systemic health effects Worker	Inhalation	5306 mg/m ³	

Long Term Systemic health effects Worker	Dermal	13,964 mg/kg bw/d	
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n-Hexane

Type	Exposure Route	Derived No effect Level	Safety Factor
Long Term Systemic health effects Worker	Inhalation	75 mg/m ³	
Long Term Systemic health effects Worker	Dermal	11 mg/kg bw/d	

Predicted No effect Concentration (PNEC)

No data available

8.2 Exposure controls**Protective equipment****Appropriate engineering controls**

Observe any occupational exposure limits for the product or ingredients. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Chemical splash goggles or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Hand protection

Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Nitrile rubber.

Other skin and body protection

Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Wear protective clothing.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

(a) Physical State	Liquid
(b) Appearance	Canister/Aerosol.
(c) Colour	Amber
(d) Odour	Characteristic
(e) Odour Threshold	No data available

(f) Melting point/freezing point	No data available
(g) Initial boiling point and boiling range	Not applicable - aerosol
(h) Flammability (solid gas)	Not applicable for liquids
(i) Upper/lower flammability Or explosive limits	No data available
(j) Flash Point	Not applicable – aerosol
(k) Auto-ignition temperature	No data available
(l) Decomposition temperature	Not applicable – insoluble in water
(m) pH as gaseous solution	No data available
(n) Kinematic Viscosity	No data available
(o) Dynamic Viscosity	No data available
(p) Water solubility	No data available
(q) Solubilities	No data available
(r) Partition coefficient	No data available
(s) Vapour pressure	No data available
(t) Relative density	No data available
(u) Relative Vapour Density	No data available
(v) Particle characteristics	
Particle Size	No data available
Particle size distribution	No data available

9.2 Other information

Can pressure 70psi

9.2.1 Information with regards to physical hazards classes

Not applicable

9.2.2 Other safety characteristics

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Avoid heat, sparks, and flames, stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid heat, flames and other sources or ignition. Avoid contact with: Strong oxidising agents, Strong alkalis and Strong mineral acids.

10.5 Incompatible materials

Materials to avoid

Strong acids, strong oxidising substances and strong alkalis.

10.6 Hazardous decomposition products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO); Carbon Dioxide (CO₂)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Hydrocarbons, C7,n-alkanes, isoalkanes,cyclics

Acute Toxicity

Oral

LD₅₀ Oral – Rat - >5,840 mg/kg

Inhalation

LD₅₀ Inhalation – Rat – 23300 mg/m³

Skin corrosion/irritation

LD₅₀ Oral – Rat - >2,920 mg/kg

Hydrocarbons, C6,isoalkanes, <5% n-hexane

Acute Toxicity

Oral

LD₅₀ Oral – Rat - >5,000 mg/kg

Inhalation

LD₅₀ Inhalation – Rat – 20mg/l

Skin corrosion/irritation

LD₅₀ Oral – Rat - >2,500 mg/kg

Other Information

Germ Cell Mutagenicity: Based upon available data, the classification criteria are not met.

Carcinogenicity: Based upon available data, the classification criteria are not met.

Reproductive Toxicity: Based upon available data, the classification criteria are not met.

STOT - Single Exposure: May cause drowsiness or dizziness.

STOT – Repeated Exposure: Based upon available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No information available.

11.2.2 Other Information

Other adverse effects: No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous to the environment. However, contamination of the aquatic or terrestrial environments should be avoided

12.1 Toxicity

Hydrocarbons, C7,n-alkanes, isoalkanes,cyclics

Toxicity to fish LL50 - Oncorhynchus mykiss (rainbow trout) – >13.4 mg/l – 96 hr

OECD Test guideline 203

Toxicity to daphnia and other

Aquatic invertebrates: EC50 – Daphnia magna (Water flea) – 3.0 mg/l – 48 hr

ECHA

Toxicity to algae EL50 – Pseudokirchneriella subcapitata – 10-30 mg/l – 72 h

DIN 38412

Hydrocarbons, C6,isoalkanes, <5% n-hexane

Toxicity to fish LL50 - Oncorhynchus mykiss (rainbow trout) – 18.27 mg/l – 96 hr

OECD Test guideline 203

Aquatic invertebrates: EC50 – Daphnia magna (Water flea) – 31.9 mg/l – 48 hr

ECHA

Toxicity to algae EL50 – Pseudokirchneriella subcapitata – 13.6 mg/l – 72 h

DIN 38412

12.2 Persistence and degradability

Biodegradability No data available

12.3 Bio accumulative potential

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB Assessment

Contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine Disrupting Properties

No data available

12.7 Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

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

ADR/IMDG/AND/RID	AEROSOLS
IATA	Aerosols Flammable

14.3 Transport Hazard Class(es)

ADR/RID/ADN Class	2.1
ADR/RID/ADN Class	Class 2: Gases
ADR Label No	2.1
IATA	2.1
IMDG Class	2.1
ICAO Class/Division	2.1
ICAO Subsidiary Risk	-
ICAO TEC* No	20GSF
Air Class	2.1
UK Road Class	2.1
Transport Labels	L.Q.



14.4 Packing group

Not applicable.

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant.

No.

14.6 Special Precautions for user

Overland Transport

Classification Code (ADR): 5F

Special Provisions (ADR):	190,327,344,625
Limited Quantities (ADR):	1I
Excepted Quantities (ADR):	E0
Packing Instructions (ADR):	P207,LP02
Special Packing provisions (ADR):	PP87, RR6, L2
Mixed Packing provisions (ADR):	MP9
Transport Strategy (ADR):	2
Special provisions for carriage – Packages (ADT)	V14
Special Provisions for carriage – Loading, unloading and handling (ADR):	CV9, CV12
Special provisions for carriage – Operation (ADR):	S2
Tunnel Restriction Code:	D
<u>Transport by Sea</u>	
Special Provisions (IMDG):	63,190,277,327,344,959
Limited Quantities (IMDG):	SP277
Excepted Quantities (IMDG):	E0
Packing Instructions (IMDG):	P207,LP02
Special Packing provisions (IMDG):	PP87,L2
EmS-No (Fire):	F-D
EmS-No (Spillage):	S-U
Stowage category (IMDG):	None
Stowage and Handling (IMDG):	SW1,SW22
Segregation (IMDG):	SG69
MFAG-No:	126
<u>Air Transport</u>	
PCA Excepted Quantities (IATA):	E0
PCA Limited Quantities (IATA):	Y203
PCA Limited Quantity max net quantity (IATA):	30KgG
PCA Packing instructions (IATA):	203
PCA max net quantity (IATA):	75Kg
CAO packing instructions (IATA):	203
CAO max net quantity (IATA):	150Kg
Special provisions (IATA):	A145,A167,A802
ERG Code (IATA):	10L
<u>Inland Waterway Transport</u>	
Classification Code (ADN):	5F
Special Provisions (ADN):	190,327,344,625
Limited Quantities (ADN):	1 L
Excepted Quantities (ADN):	E0
Equipment required (ADN):	PP,EX,A
Ventilation (ADN):	VE01,VE04
Number of blue cones/lights (ADN):	1
<u>Rail Transport</u>	
Classification Code (RID):	5F
Special Provisions (RID):	190,327,344,625
Limited Quantities (RID):	1L
Excepted Quantities (RID):	E0
Packing Instructions (RID):	P207,LP02
Special Packing provisions (RID):	PP87,RR6,L2
Mixed Packing provisions (RID):	MP9
Transport Category (RID):	2
Special Provisions for carriage – Packages (RID):	W14
Special Provisions for carriage – Loading, unloading and handling (RID):	CW9, CW12

Colis Express (express parcels) (RID):

CE2

Hazard Identification No (RID):

23

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.**

Labelling according to Regulation (EC) No 1272/2008

The chemicals (Hazard information and packaging for supply) regulations 2009 (S.I 2009 No. 716). Control of substances hazardous to health.

Approved code of practice.

Guidance notes

Workplace exposure limits EH40.

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions.

Contains no REACH Annex XIV substances.

This mixture contains: N-HEXANE; CAS No: 110-54-3; EC No: 203-777-6
REACH No: 01-2119480412-44-XXXX

a substance that has been identified as a Substance of Very High Concern (SVHC) and included on the REACH Candidate List in accordance with Article 59(10) of Regulation (EC) No 1907/2006.

15.1.2 National Regulations

No additional information available.

15.2 Chemical safety assessment

A chemical safety assessment was not carried out for this product,

SECTION 16: OTHER INFORMATION**General information**

This product should be used as directed. For further information consult the product data sheet or contact technical services.

Information sources

This safety data sheet was compiled using current safety information supplied by distributor raw materials.

Revision comments

This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current.

Destroy all previous data sheets and if in doubt contact AFT Aerosols Ltd

Hazard statements in full

H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

Abbreviations

Skin Irrit 2	Skin Irritant Category 2
Flam Liq 2	Flammable Liquid Category 2
Flam Gas 1	Flammable Gas Category 1
Aquat Chron 2	Aquatic Chronic Category 2
STOT SE 3	Specific Target Organ Toxicity Single Exposure Category 3
Asp Tox 1	Aspiration Hazard Category 1

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The Information provided herein, especially recommendations for the usage and the application of this products, is provided in good faith, and no liability on the part of AFT Aerosols Ltd is stated or implied. No employee of AFT Aerosols Ltd has the authority to waive or alter in any way the content of this document.

Due to different materials used, as well as to varying working conditions, production techniques, and the requirements of the end users, all of which are beyond our control, we strongly recommend that thorough and extensive trials are carried out in order to test the suitability of our products with regard to the required processes and applications. This should also include an ageing test which should be applied to all substrates used.

It is also the responsibility of the purchaser and end user of this product to ensure that all appropriate actions necessary for the protection of the environment, and for the health and safety of their employees are observed.

This datasheet replaces all former versions