SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Weldtite TF2 Lubricant with Teflon
Article number: 03015 / 03315 (400ml), 03021 (150ml)

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Weldtite Products Ltd.
Unit 9, Harrier Road, Humber Ind. Estate
Barton-on Humber North Lincolnshire DN 18 5RP / UK
Phone 0044-1652-660000
Fax 0044-1652-660066
Homepage www.weldtite.co.uk
E-mail sales@weldtite.co.uk

Address enquiries to

Technical information sales@weldtite.co.uk

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +44 (0) 1652 660000 Mo-Fr 8:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

Signal word DANGER

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P280 Wear protective gloves / eye protection / face protection.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.

UFI: GKJU-7V0D-QS23-JAR8

2.3 Other hazards

Physico-chemical hazards Heat causes increase in pressure and risk of bursting.

Environmental hazards This substance/mixture 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.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - <60	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43-XXXX
	GHS/CLP: Asp. Tox. 1: H304
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene)
	CAS: 68476-85-7, EINECS/ELINCS: 270-704-2, EU-INDEX: 649-202-00-6
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas (Liquefied gas): H280
1 - <5	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. With 2-propanamine
	CAS: 84961-74-0, EINECS/ELINCS: 284-664-9, Reg-No.: 01-2119985163-33-XXXX
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Aquatic Chronic 3: H412
0,1 - <0,25	Alcohols, C11-14-iso-, C13-rich, ethoxylated
	CAS: 78330-21-9, EINECS/ELINCS: 616-609-5
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 3: H412, M_acute = 1
0,1 - <0,25	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine
	CAS: 110-25-8, EINECS/ELINCS: 203-749-3, Reg-No.: 01-2119488991-20-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Acute 1: H400 - Acute Tox. 4: H332, M_acute = 1

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion Rinse out mouth and give plenty of water to drink.
Seek medical advice.
Do not induce vomiting.
Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

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 Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Bursting aerosols can be forcibly projected from a fire.
Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO).
Carbon dioxide (CO2)
Not combusted hydrocarbons.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spraying in enclosed areas.
Avoid contact with eyes and skin. Use personal protective equipment.

Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Do not pierce or burn, even after use.

Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Protect from heat/overheating and from sun.
Keep in a cool place, heat causes increase in pressure and risk of bursting.
Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43-XXXX
Long-term exposure: 1200 mg/m³, Advisory OEL (CEFIC-HSPA)
Petroleum gases, liquefied (< 0,1% 1,3-butadiene)
CAS: 68476-85-7, EINECS/ELINCS: 270-704-2, EU-INDEX: 649-202-00-6
Long-term exposure: 1000 ppm, 1750 mg/m³, Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)
Short-term exposure (15-minute): 1250 ppm, 2180 mg/m³

DNEL

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. With 2-propanamine, CAS: 84961-74-0
Industrial, dermal, Long-term - systemic effects: 0,94 mg/kg/day.
Industrial, inhalative, Long-term - systemic effects: 3,33 mg/m³.
general population, dermal, Long-term - systemic effects: 0,47 mg/kg/day.
general population, oral, Long-term - systemic effects: 0,47 mg/kg/day.
general population, inhalative, Long-term - systemic effects: 0,82 mg/m³.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
Industrial, dermal, Acute - systemic effects: 100 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 0,2 mg/m³.
Industrial, inhalative, Acute - systemic effects: 18 mg/m³.
Industrial, inhalative, Long-term - local effects: 0,01 mg/m³.
Industrial, dermal, Long-term - systemic effects: 10 mg/kg.
Industrial, inhalative, Acute - local effects: 18 mg/m³.
general population, oral, Acute - systemic effects: 92 mg/kg.
general population, inhalative, Long-term - systemic effects: 0,1 mg/m³.
general population, inhalative, Acute - systemic effects: 9 mg/m³.
general population, inhalative, Long-term - local effects: 0,005 mg/m³.
general population, inhalative, Acute - local effects: 9 mg/m³.
general population, dermal, Long-term - systemic effects: 5 mg/kg.
general population, dermal, Acute - systemic effects: 50 mg/kg.
general population, oral, Long-term - systemic effects: 5 mg/kg.

PNEC

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. With 2-propanamine, CAS: 84961-74-0
soil, 35 mg/kg.
sewage treatment plants (STP), 1,67 mg/l.
sediment (seawater), 8,1 mg/kg.
sediment (freshwater), 8,1 mg/kg.
seawater, 0,0268 mg/l.
freshwater, 0,268 mg/l.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
seawater, 0,000043 mg/l.
freshwater, 0,00043 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,11 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,11 mm, butyl rubber, > 120 min (EN 374-1/-2/-3)
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Do not inhale aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	See SECTION 7.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Color	amber colour
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	Extremely flammable aerosol.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	not applicable
Partition coefficient [n-octanol/water]	No information available.
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.
Heat causes increase in pressure and risk of bursting.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.
Avoid temperatures above 50°C.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. With 2-propanamine, CAS: 84961-74-0
LD50, oral, Rat: > 2000 mg/kg.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
LD50, oral, Rat: > 5000 mg/kg.
LC50, inhalative, Rat: 1,8 mg/l/1h (dust/mist).
LC50, inhalative, Rat: 3,7 mg/l/1h (dust/mist).
Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7
LC50, inhalative, Rat: > 20 mg/l/4h.
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
LD50, dermal, Rabbit: > 5000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
LC50, inhalative, Rat: > 5000 mg/m³/8h.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking. Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	May be fatal if swallowed and enters airways. Calculation method
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. With 2-propanamine, CAS: 84961-74-0
LC50, (96h), fish: 1 - 5 mg/l.
EC50, (48h), Algae: > 10 mg/l.
EC50, (96h), Daphnia magna: 15 mg/l.
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
LC50, (96h), Leuciscus idus: 9,3 mg/l.
EC50, (48h), Daphnia magna: 0,43 mg/l (OECD 202).
EC50, (72h), Desmodesmus subspicatus: 6,3 mg/l.
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
LC50, (96h), Oncorhynchus mykiss: > 1000 mg/l.
EC50, (48h), Daphnia magna: > 1000 mg/l.
NOELR, (21d), Daphnia magna: ~ 1,22 mg/l.
NOELR, (28d), Oncorhynchus mykiss: ~ 0,17 mg/l.
NOELR, (72h), Pseudokirchneriella subcapitata: > 1000 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended) 160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150104
150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID	1950
Inland navigation (ADN)	1950
Marine transport in accordance with IMDG	1950
Air transport in accordance with IATA	1950

14.2 UN proper shipping name

Transport by land according to ADR/RID	Aerosols
- Classification Code	5F
- Label	
- ADR LQ	1 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)
Inland navigation (ADN)	Aerosols
- Classification Code	5F
- Label	
Marine transport in accordance with IMDG	Aerosols
- EMS	F-D, S-U
- Label	
- IMDG LQ	1 l
Air transport in accordance with IATA	Aerosols, flammable
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	2
Inland navigation (ADN)	2
Marine transport in accordance with IMDG	2.1
Air transport in accordance with IATA	2.1

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for young people. SEVESO III (Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008: P3a FLAMMABLE AEROSOLS Qualifying quantity (tonnes), Column 2: 150 (netto) Qualifying quantity (tonnes), Column 3: 500 (netto)
- VOC (2010/75/CE)	ca. 85 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.
H304 May be fatal if swallowed and enters airways.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")

Modified position

SECTION 2 been added: This substance/mixture 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.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: If ventilation is insufficient, wear respiratory protection.

SECTION 12 deleted: Based on all available information not to be classified as PBT or vPvB respectively.