



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Jan/2/2017

Version: 3

Language: en-US

Date of print: Jan/10/2017

Top-Lub-Fluid

Material number 115120

Page: 1 of 10

1. Product and company identification

Product identifier

Trade name: Top-Lub-Fluid

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

General use: Technical aerosol.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – USA (24h): Tel: ++1 202 464 2554

Transport:

TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554

2. Hazards identification

Emergency overview

Appearance: Form: Aerosol
Color: yellow
Odor: characteristic
Classification: Flammable Aerosol - Category 1; Compressed Gas; Skin Irritation - Category 2;
Specific Target Organ Toxicity (Single Exposure) - Category 3;
Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see ' First aid ' on this label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Higher doses may have a narcotic effect.
Exposure to temperatures exceeding 122 °F will increase pressure: resulting in danger of bursting or explosion.
Potentially explosive mixtures may form if adequate ventilation is not provided.
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.
May be fatal if swallowed and enters airways.
see section 11: Toxicological information

3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	10 - 25 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 109-66-0	n-Pentane	10 - 25 %	Flammable Liquid - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 106-97-8	Butane	25 - 50 %	Flammable Gas - Category 1. Compressed Gas.
CAS 74-98-6	Propane	< 10 %	Flammable Gas - Category 1. Compressed Gas.



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4. First aid measures

- General information: Take off immediately all contaminated clothing.
- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention.
- Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Consult a doctor if skin irritation persists.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
- After swallowing: Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Causes skin irritation. May cause drowsiness or dizziness. Inhalation causes narcotic effects/intoxication. Dizziness.

Information to physician

Treat symptomatically.

5. Fire fighting measures

- Flash point/flash point range: -142.6 °F
- Auto-ignition temperature: not self-igniting
- Suitable extinguishing media: Water fog, alcohol resistant foam, dry chemical powder, carbon dioxide.
- Extinguishing media which must not be used for safety reasons: High power water jet

Specific hazards arising from the chemical

Extremely flammable aerosol.
Heating will lead to pressure increase: Danger of bursting and explosion.
May form dangerous gases and vapours in case of fire. In case of fire may be liberated: Carbon monoxide and carbon dioxide.
Potentially explosive vapor/air mixtures may form.

- Protective equipment and precautions for firefighters: Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

- Additional information: Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

- Personal precautions: Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with skin and eyes. Eliminate all ignition sources if safe to do so. Wear appropriate protective equipment. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Take off immediately all contaminated clothing. Keep unprotected people away. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.
- Environmental precautions: Do not allow to enter into ground-water, surface water or drains.
In case of release, notify competent authorities. Danger of explosion!



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- Methods for clean-up: Allow small spillages to evaporate provided there is adequate ventilation.
Do not use water.
Ventilate affected area.
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.
- Additional information: Use explosion-proof equipment and non-sparking tools/utensils.
Leaking cans, cans with spillage, are to be segregated, sprayed to empty state and disposed of. Refer to section 13 (Waste removal)

7. Handling and storage

Handling

- Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray.
Avoid contact with skin and eyes. Wear appropriate protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.
Take off immediately all contaminated clothing.

Precautions against fire and explosion:

- Container under pressure. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form. Vapors may form explosive mixtures with air.

Storage

Requirements for storerooms and containers:

- Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Keep at temperature not exceeding 104 °F.
Store containers in upright position. Explosion protection required. Store locked up.

Hints on joint storage:

- Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
109-66-0	n-Pentane	NIOSH: Ceiling USA: NIOSH: TWA	1800 mg/m ³ ; 610 ppm 350 mg/m ³ ; 120 ppm
106-97-8	Butane	USA: ACGIH: TWA USA: NIOSH: TWA	2370 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 800 ppm
74-98-6	Propane	USA: NIOSH: TWA USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm

Engineering controls

- Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.
See also information in chapter 7, section storage.



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Personal protection equipment (PPE)

- Eye/face protection:** Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection:** Flame retardant, antistatic and chemical resistant protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves).
Glove material: Nitrile rubber - Layer thickness: ≥ 0.5 mm
Breakthrough time: 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection:** Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
If higher concentrations occur: Wear self-contained breathing apparatus.
- General hygiene considerations:**
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Do not breathe gas/vapor/spray. Avoid contact with skin and eyes.
Take off immediately all contaminated clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance:** Form: Aerosol
Color: yellow
- Odor:** characteristic
- Odor threshold:** not determined
- pH value:** not determined
- Melting point/freezing point:** not determined
- Initial boiling point and boiling range:** -47.2 °F
- Flash point/flash point range:** -142.6 °F
- Evaporation rate:** not applicable
- Flammability:** extremely flammable aerosol
- Explosion limits:** LEL (Lower Explosion Limit): 0.80 Vol-%
UEL (Upper Explosive Limit): 10.90 Vol-%
- Vapor pressure:** at 68 °F: 2100 hPa
- Vapor density:** not determined
- Density:** at 68 °F: 0.767 g/cm³
- Solubility:** not determined
- Water solubility:** slightly soluble
- Partition coefficient: n-octanol/water:** not determined
- Auto-ignition temperature:** not self-igniting
- Thermal decomposition:** No decomposition when used properly.
- Viscosity, dynamic:** not determined
- Viscosity, kinematic:** not determined
- Explosive properties:** Product is not explosive. Potentially explosive vapor/air mixtures may form.
- Ignition temperature:** > 392 °F



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Solvent content: 50.0 %

10. Stability and reactivity

- Reactivity: Extremely flammable aerosol.
Vapors may form explosive mixtures with air.
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions
Container under pressure.
Heating will lead to pressure increase: Danger of bursting and explosion.
- Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 122 °F.
- Incompatible materials: Do not store together with combustible or self-igniting materials or any highly flammable solids.
- Hazardous decomposition products:
May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: Carbon monoxide and carbon dioxide
- Thermal decomposition: No decomposition when used properly.

11. Toxicological information

Toxicological tests

- Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.
Eye damage/irritation: Based on available data, the classification criteria are not met.
Minor irritation effect - does not require labeling.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Based on available data, the classification criteria are not met.
- Other information: Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
LD50 Rat, oral: > 5840 mg/kg (read across)
LD50 Rat, dermal: > 2800 mg/kg (read across)
LD50 Rat, inhalative: > 25 mg/L/4h

Symptoms

- After contact with skin:
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.
After eye contact: Irritant effects are possible.



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Algae toxicity:
EL50 Pseudokirchneriella subcapitata (green algae): 10 - 30 mg/L/72h (OECD 201)
Daphnia toxicity:
EL50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)
Fish toxicity:
LLC50 Oncorhynchus mykiss: 11.4 mg/L/96h (OECD 203)
Information about n-Pentane:
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): 10.7 mg/L/72h (OECD 201)
Daphnia toxicity:
Daphnia magna (Big water flea): 2.7 mg/L/48h (OECD 202)
Fish toxicity:
LC50 Oncorhynchus mykiss: 4.26 mg/L/96h (OECD 203)

Further details: Biodegradation:
Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
96 % . Inherently biodegradable (OECD 301).
Information about n-Pentane: 71.43 % . Biodegradable (OECD 301 F).

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):
50 % by weight = 383.5 g/L
General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation. Dispose of as hazardous waste.
Do not dispose of with household waste.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care.
Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.



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14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail:
75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126



Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.1, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381,959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: no
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk: Class 2.1
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L



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15. Regulatory information

National regulations - U.S. Federal Regulations

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

TSCA Inventory: listed
TSCA HPVC: not listed
TSCA Inventory: listed; EPA flags T
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = g
NIOSH Recommendations:
Occupational Health Guideline: 0486

Butane:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0068*

Propane:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0524

National regulations - U.S. State Regulations

Butane:

Delaware Air Quality Management List:
DRQ: F 1000** - RQ State: State requirements differs from Federal
Massachusetts Haz. Substance codes: 4,5,6
Minnesota Haz. Substance:
Codes: A - Ratings: - - Status: Title III
New Jersey RTK Hazardous Substance:
DOT: 1011 - Sub No.: 0273 - TPQ: -
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 800 ppm - 1900 mg

Propane:

California Proposition 65 code: -
Delaware Air Quality Management List:
DRQ: F 1000** - RQ State: State requirements differs from Federal
Massachusetts Haz. Substance codes: 2,4,5,6
Minnesota Haz. Substance:
Codes: AP - Ratings: - - Status: Title III
New Jersey RTK Hazardous Substance:
DOT: 1978 - Sub No.: 1594 - TPQ: -
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 1000 ppm - 1800 mg

National regulations - Great Britain

Hazchem-Code: -



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16. Other information

Text for labeling: Contains 10 - 25 % Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, 10 - 25 % n-Pentane, 25 - 50 % Butane, < 10 % Propane. Safety data sheet available on request.

Hazard rating systems:
NFPA Hazard Rating:
Health: 1 (Slight)
Fire: 4 (Severe)
Reactivity: 0 (Minimal)



HMIS Version III Rating:
Health: 1 (Slight) - Chronic effects
Flammability: 4 (Severe)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	*	1
FLAMMABILITY		4
PHYSICAL HAZARD		0
		X

Reason of change: ADR/RID 2017, IMDG 2017

Date of first version: Mar/17/2016

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.