



SAFETY DATA SHEET

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

Revision date: Dec/21/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

Top-Lube

Article number 115100

Page: 1 of 9

1. Product and company identification

Product identifier

Trade name: Top-Lube

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 GmbH & Co. KG

Street/POB-No.: Königsberger Str. 255

Postal Code, city: 48157 Münster

Germany

WWW: www.weicon.de

E-mail: info@weicon.de

Telephone: +49 (0)251- 93 22-0

Telefax: +49 (0)251- 93 22-244

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

GIZ, Bonn (Germany)

Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Form: Aerosol, liquid

Color: yellow

Odor: characteristic

Classification: Aerosol - Category 1; Skin Irritation - Category 2; Sensitization - skin - Category 1;
Specific Target Organ Toxicity (Single Exposure) - Category 3;
Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word: **Danger**

Hazard statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes skin irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.



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Top-Lube

Article number 115100

Revision date: Dec/21/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

Page: 2 of 9

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.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye 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 or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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

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.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect. Danger of metabolic acidosis.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Preparation of active ingredients with propellant

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	10 - 20 %	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 8028-48-6	Orange, sweet, ext.	< 1 %	Flammable Liquid - Category 3. Skin Irritation - Category 2. Sensitization - skin - Category 1. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 75-28-5	Isobutane, pure	25 - 30 %	Flammable Gas - Category 1. Compressed Gas.
CAS 74-98-6	Propane	10 - 25 %	Flammable Gas - Category 1. Compressed Gas.



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Top-Lube

Article number 115100

Revision date: Dec/21/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

Page: 3 of 9

4. First aid measures

General information:	Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
Following skin contact:	Wash with generous amount of water and soap. Take off contaminated clothing. 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:	Never give anything by mouth to an unconscious person. Seek medical treatment in case of troubles.

Most important symptoms/effects, acute and delayed

Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

Information about Isobutane > -112 °F

Auto-ignition temperature: no data available

Suitable extinguishing media:

Water fog, dry chemical powder, sand, foam, 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. Vapors form potentially explosive mixtures with air, which are heavier than air. Air-Vapor mixture may travel great distances at floor level and lead to backflash when exposed to an ignition source.

May form dangerous gases and vapours in case of fire. Furthermore, there may develop: Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. Do not breathe fumes.

Additional information:

Do not expose to high temperature. Danger of bursting and explosion. Cool endangered containers with water spray and, if possible, remove from danger zone. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions:	Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Do not breathe vapor or spray. Wear protective equipment. Avoid contact with skin and eyes. Change contaminated clothing.
Environmental precautions:	Do not allow to penetrate into soil, waterbodies or drains. In case of release, notify competent authorities.



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Top-Lube

Article number 115100

Revision date: Dec/21/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

Page: 4 of 9

Methods for clean-up: Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions. Collect dry and place in appropriate containers for disposal. Subsequent cleaning.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Do not breathe vapor or spray.

Wear protective equipment. Avoid contact with skin and eyes. Change contaminated clothing.

Precautions against fire and explosion:

Pressurized 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 flames or any incandescent material.

Use only non-sparking tools. Keep away from sources of ignition. - No smoking.

Take precautionary measures against static discharges.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

Keep only in the original container. Store containers in upright position. Storage temperature: < 122 °F

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with combustible or self-igniting materials or any highly flammable solids. keep away from strong oxidizing agents

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
75-28-5	Isobutane, pure	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 good ventilation and/or an exhaust system in the work area. Use explosion-proof equipment and non-sparking tools/utensils.

See also information in chapter 7, section storage.

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

Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber - Layer thickness: 0.4 mm

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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Top-Lube

Article number 115100

Revision date: Dec/21/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

Page: 5 of 9

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/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Keep away from heat sources, sparks and open flames.
Do not breathe vapor or spray. Use only in well-ventilated areas.
Change contaminated clothing. Avoid contact with skin and eyes.
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, liquid
Color: yellow

Odor: characteristic

Odor threshold: no data available

pH value: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point/flash point range: Information about Isobutane > -112 °F

Evaporation rate: no data available

Flammability: Extremely flammable aerosol.

Explosion limits: LEL (Lower Explosion Limit): Information about Isobutane: 1.40 Vol-%
UEL (Upper Explosive Limit): Information about Propane: 10.80 Vol-%

Vapor pressure: no data available

Vapor density: no data available

Density: at 68 °F: 0.855 g/mL

Water solubility: immiscible

Partition coefficient: n-octanol/water: no data available

Auto-ignition temperature: no data available

Thermal decomposition: no data available

Explosive properties: Product is not explosive. Potentially explosive vapor/air mixtures may form.

Ignition temperature: 392 °F

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.
Do not expose to high temperature. 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: Oxidizing agents. Do not store together with combustible or self-igniting materials or any highly flammable solids.



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Revision date: Dec/21/2015

Version: 1

Language: en-US

Date of print: Jan/4/2016

Top-Lube

Article number 115100

Page:

6 of 9

Hazardous decomposition products:

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Thermal decomposition: no data available

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: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

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, C7, n-alkanes, isoalkanes, cyclics:
LD50 oral, Rat: > 5840 mg/kg (OECD 401)
LD50 dermal, Rabbit: 2100 - 3100 mg/kg (OECD 402)
LC50 inhalative, Rat: > 23,3 mg/L (OECD 403)

Symptoms

In case of inhalation:
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect. headache, nausea.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Algae toxicity:
- EL50 Pseudokirchneriella subcapitata (green algae), 10 - 30 mg/L/72h (OECD 201)

Daphnia toxicity:
- EC50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)

Fish toxicity:
- LL50 Oncorhynchus mykiss: > 13,4 mg/L/96h (OECD 203)

Mobility in soil

no data available



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Version: 1

Language: en-US

Date of print: Jan/4/2016

Top-Lube

Article number 115100

Page: 7 of 9

Persistence and degradability

Further details: Information about Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:
Biodegradation: 98 %/28d (OECD 301 F)
Product is biodegradable.

Additional ecological information

Volatile organic compounds (VOC):

71 % by weight = 465 g/L

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Special waste. Do not open with force or incinerate, even when empty.
Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Contaminated packaging

Recommendation: Empty carefully and completely, if possible.
Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN1950
Proper shipping name: UN 1950, AEROSOLS
DOT hazard class or division: 2.1
Label codes: 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





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Version: 1
Language: en-US
Date of print: Jan/4/2016

Top-Lube

Article number 115100

Page: 8 of 9

Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
IMDG: Class 2, Subrisk -, see SP63
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 959
Limited quantities: See SP277
EQ: E0
Contaminated packaging - Instructions: P207, LP02
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

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
ICAO/IATA: Class 2.1
Hazard: Flamm. gas
EQ: E0
Passenger Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisioning: A145 A167 A802
ERG: 10L

15. Regulatory information

National regulations - U.S. Federal Regulations

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics: TSCA Inventory: listed
TSCA HPVC: not listed
Orange, sweet, ext.: TSCA Inventory: listed; EPA flags XU
TSCA HPVC: not listed
Isobutane, pure: 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: 0350*
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



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Revision date: Dec/21/2015
Version: 1
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Page: 9 of 9

National regulations - U.S. State Regulations

Isobutane, pure:

California Proposition 65 code: -

Delaware Air Quality Management List:

DRQ: F 1000** - RQ State: State requirements differs from Federal

Massachusetts Haz. Substance codes: 6

New Jersey RTK Hazardous Substance:

DOT: 1969 - Sub No.: 1040 - TPQ: -

Pennsylvania Haz. Substance code: -

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: -

16. Other information

Text for labeling:

Contains 10 - 20 % Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, < 1 % Orange, sweet, ext., 25 - 30 % Isobutane, pure, 10 - 25 % Propane. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 4 (Severe)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	1
	X

Date of first version: Dec/21/2015

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.