1. Product and company identification

Product identifier

Trade name: Rust Loosener 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
Additional information: WEICON GmbH & Co. KG
Königsberger Straße 255
Münster 48157
www.weicon.de
info@weicon.de
+49(0)251 / 9322 - 0
+49(0)251 / 9322 - 244

Emergency phone number

GIZ, Bonn Germany (English)
Telephone: +49(0)228 / 19 240

Transport:
Consultank Lutz Harder GmbH
Telephone: +49 (0)178 433 7434 (24h Emergency Contact)

2. Hazards identification

Emergency overview

Appearance: Form: Aerosol
Color: yellow, clear
Odor: characteristic

Classification: Flammable Aerosol - Category 1; Compressed Gas; Aquatic toxicity - chronic - Category 3;

Hazard symbols:

Signal word: **Danger**
Hazard statements: Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Harmful to aquatic life with long lasting effects.

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 release to the environment.
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 defattening or dermatitis.
May be fatal if swallowed and enters airways.
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 64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	50 - 75 %	Aspiration Toxicity - Category 1.
CAS 110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl) glycine	< 1 %	Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1. Aquatic toxicity - acute - Category 1.
CAS 95-38-5	2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol	< 1 %	Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1C. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
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.

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

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.
Do not expose to high temperature. Danger of bursting and explosion.
May form dangerous gases and vapours in case of fire. In case of fire may be liberated: Nitrogen oxides (NOx), 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 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!

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 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
106-97-8	Butane	USA: ACGIH: TWA USA: NIOSH: TWA	2370 mg/m³; 1000 ppm 1900 mg/m³; 800 ppm
74-98-6	Propane	USA: NIOSH: TWA USA: OSHA: TWA	1800 mg/m³; 1000 ppm 1800 mg/m³; 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.

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, clear
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): 0.50 Vol-% UEL (Upper Explosive Limit): 10.90 Vol-%
Vapor pressure:	at 68 °F: 2100 hPa
Vapor density:	not determined
Density:	at 68 °F: 0.696 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

Solvent content: 91.6 %

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: 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: Nitrogen oxides (NOx), 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): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5000 mg/kg.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 5 mg/L. (Aerosol)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Minor irritation effect - does not require labeling.

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

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Distillates (petroleum), solvent-dewaxed heavy paraffinic:
LD50 Rat, oral: > 5000 mg/kg (OECD 401)
LD50, Rabbit, dermal: >= 3160 mg/kg (OECD 402)
LC50, Rat, inhalative (Aerosol): > 6100 mg/m² (OECD 403)

Symptoms

In case of inhalation: May be fatal if swallowed and enters airways.
After contact with skin:
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
After eye contact: Irritant effects are possible.

12. Ecological information

Ecotoxicity

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

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Algae toxicity:
EL50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/72h (OECD 201).
Daphnia toxicity:
LL50 Daphnia magna (Big water flea): 1000 mg/L/48h (OECD 202).
Daphnia toxicity:
NOELR Daphnia magna (Big water flea): 1.22 mg/L/28d (QSAR).
Fish toxicity:
LL50 Oncorhynchus mykiss: > 1000 mg/L/96h (OECD 203).

Information about (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): 6.3 mg/L/72h (EU Method C.3).
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 0.43 mg/L/48 h (OECD 202).
Fish toxicity:
EC50 Leuciscus idus: 9.3 mg/L/96 h (EU Method C.1).

Information about 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol:
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): 0.03 mg/L/72h (OECD 201).
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 0.163 mg/L/48 h
Fish toxicity:
EC50 Brachydanio rerio (zebra-fish) 0.3 mg/L/96 h (OECD 203).

Further details: Biodegradation:

Information about Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics: 68 % Product is biodegradable. (OECD 301F).

Information about 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol: 82 %/28 d. Product is biodegradable. (OECD 301 B).

Information about (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine: 70 %/13 d. Product is biodegradable. (OECD 301 B).

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):
91.6 % by weight = 637.5 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.

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.

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

Sea transport (IMDG)

UN number:	UN 1950
Proper shipping name:	UN 1950, AEROSOLS
IMDG:	Class 2.1, Subrisk -
Packing Group:	-
EmS:	F-D, S-U
Special provisions:	63, 190, 277, 327, 344, 959
Limited quantities:	1000 mL
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
Segregation group:	none

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, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:	TSCA Inventory: listed; UVCB TSCA HPVC: not listed
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:	TSCA Inventory: listed TSCA HPVC: not listed
2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol:	TSCA Inventory: listed TSCA HPVC: not listed
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 Federa
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 Federa
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: -

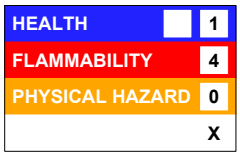
16. Other information

Text for labeling: Contains 50 - 75 % Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, < 1 % (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, < 1 % 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol, 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)
Flammability: 4 (Severe)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor



Date of first version: Mar/10/2016

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.