

SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Weldtite Dirtwash CD1 Citrus Degreaser spray
Article number 03002(400ml), 03011(150ml)

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

1.2.1 Relevant uses

Cleaning agent

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 phone

Company

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

DANGER

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.

Skin Irrit. 2: H315 Causes skin irritation.

Eye Irrit. 2: H319 Causes serious eye irritation.

STOT SE 3: H336 May cause drowsiness or dizziness.

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Extremely flammable



Irritant



Dangerous for the environment

R-phrases

R 12: Extremely flammable.

R 36/38: Irritating to eyes and skin.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Propan-2-ol

Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

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.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Cleaner, 648/2004/CE, contains:

15 - <30% aliphatic hydrocarbons (propellant)
 >=30% aliphatic hydrocarbons
 fragrances CITRONELLOL
 fragrances d-LIMONENE
 fragrances CITRAL
 fragrances

2.3 Other hazards

Physico-chemical hazards

Heat causes increase in pressure and risk of bursting.

Other hazards

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

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
25 - <60	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics EINECS/ELINCS: 927-510-4, ECB-Nr.: 01-2119475515-33-XXXX GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411 EEC: F-Xn-N, R 11-38-65-67-51/53
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 EEC: F+, R 12
15 - <30	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 EEC: F-Xi, R 11-36-67

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 and R-phrases: 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. Remove the victim into fresh air and keep him calm. In the event of symptoms seek for 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.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Headache
Vertigo
Tiredness

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	Carbon dioxide. Water spray jet. Dry powder. Foam.
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.
Unknown risk of formation of toxic pyrolysis products.
Not combusted hydrocarbons.
Carbon monoxide (CO).
Carbon dioxide (CO₂)

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, sawdust, general-purpose binder).
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.
Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
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.
Keep in a cool place, heat causes increase in pressure and risk of bursting.
Protect from heat/overheating and from sun.
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)

Range [%]	Substance
25 - <60	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics EINECS/ELINCS: 927-510-4, ECB-Nr.: 01-2119475515-33-XXXX Long-term exposure: 1200 mg/m ³
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 Long-term exposure: 1000 ppm, 1750 mg/m ³ , Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene) Short-term exposure (15-minute): 1250 ppm, 2180 mg/m ³
15 - <30	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-XXXX Long-term exposure: 400 ppm, 999 mg/m ³ Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³

DNEL

Range [%]	Substance
25 - <60	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0 Industrial, inhalative, Long-term - systemic effects: 2085 mg/m ³ . general population, inhalative, Long-term - systemic effects: 477 mg/m ³ . Industrial, dermal, Long-term - systemic effects: 300 mg/kg bw/d. general population, oral, Long-term - systemic effects: 149 mg/kg bw/d. general population, dermal, Long-term - systemic effects: 149 mg/kg bw/d.
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7 There are no DNEL values established for the substance..

PNEC

Range [%]	Substance
25 - <60	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0 There are no PNEC values established for the substance.,
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7 There are no PNEC values established for the substance.,

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact butyl rubber, > 120 min (EN 374)
Skin protection	Solvent-resistant protective clothing.
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, filter A.
Thermal hazards	See SECTION 7.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Color	yellow
Odor	citrus
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	not applicable
Partition coefficient [n-octanol/water]	not determined
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.
Warming

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

Range [%]	Substance
25 - <60	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0 LD50, oral, Rat: > 3000 mg/kg bw.
15 - <30	Propan-2-ol, CAS: 67-63-0 LC50, inhalative, Rat: 19000 ppm /8h. LD50, dermal, Rabbit: 13000 mg/kg. LD50, oral, Rat: 4700-5800 mg/kg.
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7 LC50, inhalative, Rat: > 20 mg/l/4h.

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
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. The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
25 - <60	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, CAS: 64742-49-0 LL50, (96h), Oncorhynchus mykiss: > 13,4 mg/l. NOEC, (21d), Daphnia magna: 0,17 mg/l. NOELR, (72h), Pseudokirchneriella subcapitata: 10 mg/l. EC50, (72h), Pseudokirchneriella subcapitata: 10 - 30 mg/l. EC50, (48h), Daphnia magna: 3 mg/l.
15 - <30	Propan-2-ol, CAS: 67-63-0 EC50, (48h), Daphnia magna: 7550-13299 mg/l. IC50, (72h), Desmodesmus subspicatus: > 1000 mg/l. LC50, (96h), fish: 9640-10400 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments

Behaviour in sewage plant	not determined
Biological degradability	No surfactants are contained.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

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*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 1950 AEROSOLS 2.1

- Classification Code 5F

- Label



- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) UN 1950 AEROSOLS 2.1

- Classification Code 5F

- Label



Marine transport in accordance with IMDG UN 1950 Aerosols (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) 2.1 - MARINE POLLUTANT

- EMS F-D, S-U

- Label



- IMDG LQ 1 I

Air transport in accordance with IATA UN 1950 Aerosols, flammable 2.1

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name



14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (1999/13/CE) ca. 100%

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

Propan-2-ol

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 11: Highly flammable.

R 38: Irritating to skin.

R 65: Harmful - may cause lung damage if swallowed.

R 67: Vapours may cause drowsiness and dizziness.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 12: Extremely flammable.

R 36: Irritating to eyes.

16.2 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

H411 Toxic to aquatic life with long lasting effects.

H336 May cause drowsiness or dizziness.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H225 Highly flammable liquid and vapour.

16.3 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

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

ELINCS = European List of Notified Chemical Substances

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

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

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

16.4 Other information

Modified position

none

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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Weldtite TF2 Lubricant with Teflon
Article number 03015 (400/450ml), 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 phone

Company

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

DANGER

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.

Eye Irrit. 2: H319 Causes serious eye irritation.

EUH066 Repeated exposure may cause skin dryness or cracking.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Hazard symbols



Extremely flammable

R-phrases

R 12: Extremely flammable.

R 66: Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H319 Causes serious eye irritation.
 EUH066 Repeated exposure may cause skin dryness or cracking.

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.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

2.3 Other hazards

Physico-chemical hazards

Heat causes increase in pressure and risk of bursting.

Other hazards

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

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
50 - <60	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, ECB-Nr.: 01-2119456620-43-XXXX GHS/CLP: Asp. Tox. 1: H304 - EUH066 EEC: Xn, R 65-66
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 EEC: F+, R 12
1 - <5	Dodecylbenzenesulphonic acid, compound with isopropylamine (1:1) CAS: 26264-05-1, EINECS/ELINCS: 247-556-2 GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Acute Tox. 4: H302 EEC: Xn, R 22-38-41
0,1 - <0,25	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine CAS: 110-25-8, EINECS/ELINCS: 203-749-3 GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Acute 1: H400 - Acute Tox. 4: H332, M = 1 EEC: Xn-N, R 20-38-41-50

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 and R-phrases: 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 for 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.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

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.
Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO).
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 with 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 with 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.
Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
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)

Range [%]	Substance
50 - <60	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, ECB-Nr.: 01-2119456620-43-XXXX Long-term exposure: 1200 mg/m ³ , Advisory OEL (CEFIC-HSPA)
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 Long-term exposure: 1000 ppm, 1750 mg/m ³ , Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene) Short-term exposure (15-minute): 1250 ppm, 2180 mg/m ³

DNEL

Range [%]	Substance
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7 There are no DNEL values established for the substance.:

PNEC

Range [%]	Substance
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7 There are no PNEC values established for the substance.,

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact butyl rubber, > 120 min (EN 374)
Skin protection	Solvent-resistant protective clothing.
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 of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, filter A.
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	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	not applicable
Partition coefficient [n-octanol/water]	not determined
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.
Warming

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

Range [%]	Substance
0,1 - <0,25	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8 LC50, inhalative, Rat: 1,37 mg/l/4h (Aerosol, Lit.). LD50, oral, Rat: > 2000 mg/kg.
20 - <40	Petroleum gases, liquefied (< 0,1% 1,3-butadiene), CAS: 68476-85-7 LC50, inhalative, Rat: > 20 mg/l/4h.
50 - <60	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/m ³ /8h.

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
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. The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
0,1 - <0,25	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
	EC50, (24h), Daphnia magna: 0,68 mg/l.
	LC50, (96h), Brachidanio rerio: 1,7 mg/l.
50 - <60	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
	NOELR, (72h), Pseudokirchneriella subcapitata: > 1000 mg/l.
	NOELR, (28d), Oncorhynchus mykiss: ~ 0,17 mg/l.
	EC50, (48h), Daphnia magna: > 1000 mg/l.
	NOELR, (21d), Daphnia magna: ~ 1,22 mg/l.
	LC50, (96h), Oncorhynchus mykiss: > 1000 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not applicable
Biological degradability	not applicable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

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*

SECTION 14: Transport information


14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID UN 1950 AEROSOLS 2.1
- Classification Code 5F
- Label 
- ADR LQ 1 I
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) UN 1950 AEROSOLS 2.1
- Classification Code 5F
- Label 

Marine transport in accordance with IMDG UN 1950 Aerosols 2.1 -
- EMS F-D, S-U
- Label 
- IMDG LQ 1 I

Air transport in accordance with IATA UN 1950 Aerosols, flammable 2.1
- Label 

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people Observe employment restrictions for young people.
- VOC (1999/13/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 R-phrases (SECTION 3)

R 65: Harmful - may cause lung damage if swallowed.
R 66: Repeated exposure may cause skin dryness or cracking.
R 12: Extremely flammable.
R 22: Harmful if swallowed.
R 38: Irritating to skin.
R 41: Risk of serious damage to eyes.
R 20: Harmful by inhalation.
R 50: Very toxic to aquatic organisms.

16.2 Hazard statements (SECTION 3)

H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.
EUH066 Repeated exposure may cause skin dryness or cracking.
H304 May be fatal if swallowed and enters airways.

16.3 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
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
ELINCS = European List of Notified Chemical Substances
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
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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

16.4 Other information

Modified position none

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