



SAFETY DATA SHEET

Soluble Lubricant

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name VINOLEO SS / Soluble Lubricant

Product No. 4D391, 4D935, 6UR395, 6UR396, 4S392, 4CS392, 4S391, 163460, 163461, 163462, 163463, 174880, 174862, 174663, 174865, 174866

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

Identified uses Silicone Aerosol Lubricant Intended for industrial or professional uses only.

1.3. Details of the supplier of the safety data sheet

MacDermid Limited
198 Golden Hillock Road
Birmingham
B11 2PN
Tel: +44 (0) 121 606 8100
Contact Person sdsuk@macdermid.com

1.4. Emergency telephone number

24 Hour Emergency Incident Number +44 (0)1235 239 670 - NCEC (National Chemical Emergency Centre)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)
Physical and Chemical Hazards Flam. Aerosol 1 - H222
Human health Skin Irrit. 2 - H315;STOT SE 3 - H336
Environment Aquatic Chronic 2 - H411

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2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

- H222 Extremely flammable aerosol.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P261 Avoid breathing vapour/spray.
- P280 Wear protective clothing, gloves, eye and face protection.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P314 Get medical advice/attention if you feel unwell.
- P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplementary Precautionary Statements

- P273 Avoid release to the environment.
- P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P332+313 If skin irritation occurs: Get medical advice/attention.
- P391 Collect spillage.
- P501a Dispose of contents/container in accordance with local, regional, national and/or international regulations

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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3.2. Mixtures

Naphtha (petroleum), hydrotreated light 30 - 50%

CAS-No.: 64742-49-0 EC No.: 265-151-9

Classification (EC 1272/2008)

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

Propane 10 - 30%

CAS-No.: 74-98-6 EC No.: 200-827-9

Classification (EC 1272/2008)

Flam. Gas 1 - H220

Press. Gas - H280

Butane 10 - 30%

CAS-No.: 106-97-8 EC No.: 203-448-7

Classification (EC 1272/2008)

Flam. Gas 1 - H220

Press. Gas - H280

Note K: The substance contains less than 0,1 % w/w 1,3-butadiene

Isobutane 1 - 10%

CAS-No.: 75-28-5 EC No.: 200-857-2

Classification (EC 1272/2008)

Flam. Gas 1 - H220

Press. Gas - H280

Note K: The substance contains less than 0,1 % w/w 1,3-butadiene

SECTION 4: FIRST AID MEASURES

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4.1. Description of first aid measures

General information

Remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! NOTE! Keep affected person away from heat, sparks and flames! NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

Ingestion

Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Rinse nose, mouth and throat with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information

See section 11 for additional information on health hazards. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation

Vapours may irritate throat and respiratory system and cause coughing. Spray mists may cause respiratory tract irritation. Drowsiness, dizziness, disorientation, vertigo. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Risk of chemical pneumonia after aspiration. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion

May irritate and cause stomach pain, vomiting and diarrhoea. May cause discomfort if swallowed. May cause nausea, headache, dizziness and intoxication.

Skin contact

Irritating to skin. Prolonged contact may cause redness, irritation and dry skin.

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Eye contact

May cause temporary eye irritation. Irritation, burning, lachrymation, blurred vision after liquid splash. Vapour or spray in the eyes may cause irritation and smarting.

4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Flammable/combustible material. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

Beware, risk of formation of toxic and corrosive gases. HIGHLY FLAMMABLE! Aerosol containers can explode when heated, due to excessive pressure build-up. Vapours may ignite. May travel considerable distance to source of ignition and flash back.

Specific hazards

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures. Fire or high temperatures create: Oxides of: Silicon.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Be aware of danger of explosion. Ventilate closed spaces before entering them. Use water to keep fire exposed containers cool and disperse vapours. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for fire-fighters. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours/spray and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not discharge into drains, water courses or onto the ground. Avoid release to the environment. Do not allow ANY environmental contamination.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Stop leak if possible without risk. To prevent release, place container with damaged side up.

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent

material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Containers with collected

spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not handle broken packages without protective equipment. Avoid inhalation of vapours/spray and contact with skin and eyes. Use mechanical ventilation in case of handling which causes formation of vapours. Do not use in confined spaces without adequate ventilation and/or respirator. During application and drying, solvent vapours will be emitted. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Avoid contact with acids and oxidising substances. Contaminated rags and cloths must be put in fireproof containers for disposal. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Flammable/combustible - Keep away from oxidisers, heat and flames. Do not store near heat sources or expose to high temperatures. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

Storage Class

Flammable compressed gas storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Min. Storage Temp (°C) 5

Max. Storage Temp (°C) 25

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name STD TWA - 8 Hrs STEL - 15 Min Notes

Butane WEL 600 ppm 1450 mg/m³ 750 ppm 1810 mg/m³ Carc

WEL = Workplace Exposure Limit.

Carc = Capable of causing cancer and/or heritable genetic damage.

8.2. Exposure controls

Protective equipment

Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Explosion-proof general and local exhaust ventilation. All handling to take place in well-ventilated area.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Seek advice from supervisor on the companies' respiratory protection standards.

Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. Seek advice from local supervisor. Prolonged contact: (breakthrough time > 480 minutes). Viton rubber (fluor rubber). (For material thickness = 0.5 mm minimum). Protective gloves should conform to EN 374. The condition of gloves should be checked prior to each use. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The selection of gloves should be made with consideration to working practises and the duration of exposure. Consideration should be given to other chemicals being handled and the working environment (e.g. sharps, fine work). Note: Observe manufacturers's recommendations, as the selection of suitable gloves does not only depend on glove material type, and permeability may vary between manufacturers.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this Chemical.

Other Protection

Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

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Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove non-impervious clothing that becomes wet. Wash promptly with soap & water if skin becomes contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties. DO NOT SMOKE IN WORK AREA! Eating, smoking and water fountains prohibited in immediate work area.

Environmental Exposure Controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Characteristic.
Solubility	Immiscible with water

Initial boiling point and boiling range (°C)

Not applicable.

Melting point (°C)

Not applicable.

Relative density

Not applicable.

Vapour density (air=1)

Not available.

Vapour pressure

Not available.

Evaporation rate

Not applicable.

pH-Value, Conc. Solution

Not applicable.

Viscosity

Not applicable.

Solubility Value (G/100G H₂O@20°C)

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point (°C) - 60 °C

Auto Ignition Temperature (°C)

Not available.

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Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Partition Coefficient
(N-Octanol/Water)

Not available.

Explosive properties

Not applicable.

Oxidising properties

Not applicable.

9.2. Other information

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions and recommended use.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Reacts violently with strong oxidising substances. Reacts violently with strong acids.

Hazardous Polymerisation, will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Oxides of: Silicon.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Causes skin irritation.

Serious eye damage/irritation:

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Does not contain any substances known to be sensitizing.

Germ cell mutagenicity:

Does not contain any substances known or suspected to be mutagenic.

Carcinogenicity:

Does not contain any substances known or suspected to be carcinogenic.

Reproductive Toxicity:

Does not contain any substances known or suspected to be toxic to reproduction.

Specific target organ toxicity - single exposure:

May cause drowsiness or dizziness. Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

Specific target organ toxicity - repeated exposure:

Does not contain any substances known or suspected to be specific target organ toxicants after repeated exposure.

Aspiration hazard:

Not anticipated to present an aspiration hazard based on chemical structure.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Dangerous environment if discharged into watercourses. The product does not contain organically bound halogen.

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

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12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility:

The product is immiscible with water and will spread on the water surface. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Keep in original container. Do not puncture or incinerate even when empty.

13.1. Waste treatment methods

Environmental manager must be informed of all major spillages. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) UN1950

UN No. (IMDG) UN1950

UN No. (ICAO) UN1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

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14.3. Transport hazard class(es)

ADR/RID/ADN Class 2

ADR/RID/ADN Class Class 2.1: Flammable gases.

IMDG Class 2

ICAO Class/Division 2

Transport Labels



14.4. Packing group

Not relevant

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

IMDG Code Segregation Group Not relevant

EMS F-D, S-U

Hazard No. (ADR) Not relevant

Tunnel Restriction Code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant Material not supplied in bulk.

SECTION 15: REGULATORY INFORMATION

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

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

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EU Legislation

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Physical data included in this SDS do not constitute the Product Specification -see separately supplied documentation. Supply classification prepared by calculation.

REVISION DATE	28/04/2017
REV. NO./REPL. SDS GENERATED	C
SAFETY DATA SHEET STATUS	Approved.
DATE	28/04/2017
SIGNATURE	AR
SIGNATURE 2	BH

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