



1. Product and company identification

Product name Viscogen KL 300 Spray

MSDS # 453833

Code 453833-DE34

Product use ■ Lubricant (Aerosol.)
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Manufacturer BP Europa SE
Industrial Lubricants & Services
Erkelenzer Straße 20
D-41179 Mönchengladbach
Germany

Supplier Telefon: +49 (0) 2161 909 30
Telefax: +49 (0) 2161 909 400
Castrol Industrial North America, Inc.
150 W. Warrenville Road
Naperville, IL 60563
Product Information: +1-877-641-1600

EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)
Germany: Carechem: +44 (0) 1235 239 670 (24 hours)

2. Hazards identification

Physical state Aerosol.

Color ■ Green. [Dark]

Emergency overview DANGER !
■ EXTREMELY FLAMMABLE.
INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS.
CAUSES SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.
AT VERY HIGH CONCENTRATIONS, CAN DISPLACE THE NORMAL AIR AND CAUSE SUFFOCATION FROM LACK OF OXYGEN.
Extremely flammable. Flammable aerosol. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry Dermal contact. Eye contact. Inhalation.

Potential health effects

Eyes May cause eye irritation.

Skin Causes skin irritation. Contact with rapidly expanding gas may cause burns or frostbite. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Inhalation Vapors may cause drowsiness and dizziness. Can cause central nervous system (CNS) depression. May cause respiratory tract irritation. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

Ingestion Unlikely in this form.

See toxicological information (Section 11)

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3. Composition/information on ingredients

Ingredient name	CAS #	%
Butane	106-97-8	25 - 30
Naphtha (petroleum), hydrotreated light	64742-49-0	20 - 25
Propane	74-98-6	5 - 10
isobutane	75-28-5	1 - 5

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting measures

Flammability of the product	Extremely flammable. Flammable aerosol.
Flash point	Closed cup: -60°C (-76°F)
Explosion limits	Lower: 1.5% Upper: 9.5%
Fire/explosion hazards	In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	Do not use water jet.
Fire-fighting procedures	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Protective clothing (fire)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	

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Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. High pressure gas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Storage

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name

Occupational exposure limits

Butane

OSHA PEL (United States).

TWA: State of Washington / Cal/OSHA : 800 ppm 8 hours.
STEL: 1000 ppm, (State of Washington) 15 minutes.

NIOSH REL (United States).

TWA: 800 ppm 10 hours. Issued/Revised: 6/1994
TWA: 1900 mg/m³ 10 hours. Issued/Revised: 6/1994

ACGIH TLV (United States).

STEL: 1000 ppm 15 minutes. Issued/Revised: 6/2013

Propane

OSHA PEL (United States).

TWA: 1800 mg/m³ 8 hours. Issued/Revised: 6/1993
TWA: 1000 ppm 8 hours. Issued/Revised: 6/1993

NIOSH REL (United States).

TWA: 1000 ppm 10 hours. Issued/Revised: 6/1994
TWA: 1800 mg/m³ 10 hours. Issued/Revised: 6/1994

isobutane

NIOSH REL (United States).

TWA: 800 ppm 10 hours. Issued/Revised: 6/1994
TWA: 1900 mg/m³ 10 hours. Issued/Revised: 6/1994

ACGIH TLV (United States).

STEL: 1000 ppm 15 minutes. Issued/Revised: 6/2013

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Some states may enforce more stringent exposure limits.

Control Measures

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Personal protection

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Eyes	Avoid contact with eyes. Safety glasses with side shields or chemical goggles.
Skin and body	Do not get on skin or clothing. Wear suitable protective clothing.
Respiratory	None required. However, use of adequate ventilation is good industrial practice.
Hands	The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

9. Physical and chemical properties

Physical state	Aerosol.
Color	Green. [Dark]
Odor	Mild.
Flash point	Closed cup: -60°C (-76°F)
Explosion limits	Lower: 1.5% Upper: 9.5%
Density	<1000 kg/m ³ (<1 g/cm ³) at 20°C
Boiling point / Range	<35°C (<95°F)
Vapor pressure	299.202 to 797.872 kPa (2250 to 6000 mm Hg) at 20°C
Solubility	insoluble in water.

10. Stability and reactivity

Stability and reactivity	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). High temperatures
Incompatibility with various substances	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Other Toxicity Data	Contains material that may cause target organ damage, based on animal data. Target Organs: Liver.
Other information	High vapor concentrations may produce symptoms of oxygen deficiency which, coupled with central nervous system depression, may lead to rapid loss of consciousness. Solvent "sniffing" (abuse) or intentional overexposure to vapors can produce serious central nervous system effects, including unconsciousness, and possibly death.
Potential chronic health effects	
Carcinogenicity	No known significant effects or critical hazards.

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12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Mobility

Volatile. aerosol. insoluble in water.

13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN1950	<input checked="" type="checkbox"/> AEROSOLS, flammable RQ (Benzene)	2.1	-	Reportable quantity 42408.8 lbs / 19253.6 kg [5651.4 gal / 21392.9 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Remarks Limited Quantity applies for containers 1 liter or less. DOT Nonbulk Shipping Information 173.306 (a) (3) (vi)
TDG Classification	UN1950	AEROSOLS, flammable	2.1	-	Remarks Limited Quantity applies for containers 1 liter or less. TDG Nonbulk Shipping Information 3.4.5.2
IMDG Classification	UN1950	<input checked="" type="checkbox"/> AEROSOLS	2.1	-	Emergency schedules (EmS) F-D, S-U Remarks Limited Quantity applies for containers 1 liter or less.

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
IATA/ICAO Classification	UN1950	AEROSOLS, flammable	2.1	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.

15. Regulatory information

U.S. Federal Regulations

United States inventory (TSCA 8b)

All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Fire hazard, Sudden release of pressure, Immediate (acute) health hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):

CERCLA: Hazardous substances.: n-hexane: 5000 lbs. (2270 kg); Benzene: 10 lbs. (4.54 kg); 1, 3-butadiene: 10 lbs. (4.54 kg);

State regulations

Massachusetts Substances

The following components are listed: BUTANE; PROPANE; ISOBUTANE

New Jersey Hazardous Substances

The following components are listed: BUTANE; PROPANE; Isobutane; PROPANE, 2-METHYL-

Pennsylvania RTK Hazardous Substances

The following components are listed: BUTANE; PROPANE; PROPANE, 2-METHYL-

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
Benzene; 1,3-butadiene

Other regulations

Canada inventory

At least one component is not listed.

REACH Status

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

Australia inventory (AICS)

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (ENCS)

All components are listed or exempted.

Korea inventory (KECI)

At least one component is not listed.

Philippines inventory (PICCS)

At least one component is not listed.

16. Other information

Label requirements

DANGER !

EXTREMELY FLAMMABLE.
 INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS.
 CAUSES SKIN IRRITATION.
 MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.
 AT VERY HIGH CONCENTRATIONS, CAN DISPLACE THE NORMAL AIR AND CAUSE SUFFOCATION FROM LACK OF OXYGEN.

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HMIS® Rating :

Health	2
Flammability	4
Physical Hazard	0
Personal protection	B

National Fire Protection Association (U.S.A.)



History

Date of issue 03/17/2014.

Date of previous issue 02/09/2011.

Prepared by Product Stewardship

✔ Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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