



BIZOL Protect 5W40

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/24/2018

Version: 1.0

SDS No: 11524-0009

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : BIZOL Protect 5W40

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Motor oil

1.3. Supplier

BIZOL Germany GmbH
Martin-Buber-Straße 12
Berlin, 14163 - Germany
T +49 30 804869 0 - F +49 30 804 869 2860
Southern Counties Lubricants

1.4. Emergency telephone number

Emergency number : +49 30 804869 0 (Mo-Fr 08:00 - 17:00)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Mixture based on mineral oil and hydrocrack synthetic oil
DMSO extract <3% as measured by IP 346

Name	Product identifier	%	GHS-US classification
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7	25 - <100	Asp. Tox. 1, H304
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	(CAS-No.) 68649-42-3	1 - < 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Calcium long-chain alkylohenate sulfide	(CAS-No.) 122384-87-6	1 - < 2,5	Aquatic Chronic 4, H413

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Take off immediately all contaminated clothing.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash off immediately with soap and plenty of water.
First-aid measures after eye contact : Wash immediately with plenty water (during 20 minutes), also under eyelids. Consult an eye specialist immediately.



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First-aid measures after ingestion : Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Alcohol resistant foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Specific hazards arising from the chemical

Reactivity : Thermal decomposition generates : Carbon monoxide. Carbon dioxide. In case of fire and/or explosion do not breathe fumes.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Collect contaminated firefighting water separately, must not be discharged into the drains. Cool containers at risk with water spray jet.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Keep only in original container.

Storage area : Keep away from food, drink and animal feeding stuffs. Store away from direct sunlight or other heat sources. Keep out of frost.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Not applicable



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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Not applicable

Calcium long-chain alkylohenate sulfide (122384-87-6)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

The exact break through time has to be found out by the manufacturer of the protective gloves. Glove material must be impermeable and resistant against product / substance / preparation. Gloves material should comply with breakthrough times, permeation rates, and degradation.

Type	Material	Permeation	Thickness (mm)	Penetration
protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	

Eye protection:

Safety glasses with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Filtering Half-face mask	(FFP3)	Mist formation, Liquid splashes may occur

Other information:

Do not eat, drink or smoke in areas where product is used.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : brown
Odor : characteristic
Odor threshold : No data available
pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : ≥ 200 °C EN ISO 2529
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not applicable.
Vapor pressure : < 0.1 hPa @20°C
Relative vapor density at 20 °C : No data available
Relative density : No data available
Specific gravity / density : 0.85 g/cm³ @ 15°C, DIN 51757
Solubility : insoluble in water.
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available



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Viscosity, kinematic	: 87 mm ² /s @ 40°C, ASTM D 7042
Viscosity, dynamic	: No data available
Explosion limits	: LEL: 0.6 vol % UEL: 6.5 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content	: 0 %
Additional information	: Pourpoint: <= -30 °C (DIN ISO 3016)

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Carbon monoxide. Carbon dioxide. In case of fire and/or explosion do not breathe fumes.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified (Bridging principle "Dilution")
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after eye contact	: Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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12.2. Persistence and degradability

No additional information available



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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Empty remaining contents. Packaging that cannot be cleaned should be disposed of like the product. Do not re-use empty containers without proper cleaning or reconditioning.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the Canadian DSL (Domestic Substances List)

Calcium long-chain alkylohenate sulfide (122384-87-6)
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Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available



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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

15.3. US State regulations

WARNING This product can expose you to Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		
U.S. - California - Proposition 65 - Other information		Soots, tars, and mineral oils (untreated and mildly treated oils and used engine oils)			

SECTION 16: Other information

Data sources : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases:

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product