Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: CLASSIC ILSAN GM 680

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

No further relevant information available.
Application of the substance / the mixture gear oil

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
CLASSIC Schmierstoff GmbH & Co. KG
Lange Straße 100-106
D-27318 HOYA
GERMANY
Phone: +49 (4251) - 8120
products@classic-oil.de

Further information obtainable from: product management

1.4 Emergency telephone number: 24-hour emergency contact number : +1 872 5888271 (CSG)

*

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
Additional information:
The full text of the classification and labelling elements mentioned is given in Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms Void
Signal word Void
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

The product may form a film on the water surface which may prevent oxygen exchange.
See sections 11, 12 and 15.
Results of PBT and vPvB assessment
Contains no PBT/vPvB substances ≥ 0.1%, assessed according to REACH Annex XIII
PBT: Not applicable
vPvB: Not applicable
Determination of endocrine-disrupting properties
The mixture does not contain substances listed for endocrine disrupting properties in accordance with REACH Article 59(1) or has been determined not to contain substances with endocrine disrupting properties in a concentration equal to or greater than 0.1% in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 1)

Dangerous components:		
CAS: 68937-96-2 EINECS: 273-103-3 Reg.nr.: 01-2119540515-43	Polysulphides, di-tert-Bu Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 46 %	<1%
EC number: 947-696-0 Reg.nr.: 01-2120768184-49	Reaction products of dihydro-3-(tetrapropenyl)furan-2,5-dione with propane-1,2-diol Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	<1%

Additional information:
The mineral oils in the product contain < 3% DMSO extract (IP 346).
Mixtures are not subject to registration. The registration numbers of the ingredients of this mixture (if available) have been given under point 3.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
In all cases of doubt or if symptoms are present, seek medical advice.
Never administer by mouth to an unconscious person or if convulsions occur.
First aiders: Pay attention to self-protection!
After inhalation:
Take affected persons into fresh air and keep quiet.
Seek medical treatment in case of complaints.
After skin contact:
After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.
After eye contact:
Rinse opened eye for several minutes under running water.
Remove any contact lenses if possible. Continue rinsing.
Seek medical treatment.
After swallowing:
Do NOT induce vomiting.
Call a doctor immediately.
Caution with vomiting: Danger of aspiration! Medical treatment necessary.
4.2 Most important symptoms and effects, both acute and delayed No known symptoms to date.
4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Foam, Dry powder, Carbon dioxide, Water spray jet
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
The formation of combustible vapours is possible at temperatures above: Flash point.
In the event of fire the following can be released: Pyrolysis products; Hydrocarbons; Carbon dioxide (CO2); Carbon monoxide (CO); Hydrogen sulfide (H2S); Nitrogen oxides (NOx); Phosphorus oxides; Smoke.
5.3 Advice for firefighters
Protective equipment:
In case combustion use a suitable breathing apparatus.Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.
Additional information
Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways. Do not allow to enter the subsoil/soil.

(Contd. on page 3)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 2)

B: Burning liquid or melting substances.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Particular risk of slipping due to leaking/spilled product. Conditions to avoid: Inhalation. Keep away from sources of ignition - No smoking. Avoid contact with eyes and skin.

6.2 Environmental precautions:
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid formation of oil dust. Hot product develops flammable vapours. Handle and open container with care. Avoid skin and eye contact.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Handling:
Information on general hygiene measures at the workplace:
Avoid contact with skin, eyes and clothing. Do not carry product-soaked cleaning cloths in your trouser pockets. Remove soiled, soaked clothing immediately. Wash hands before breaks and at the end of work. Do not eat, drink or smoke while working. Store work clothes separately.
The formation of flammable vapours is possible at temperatures above: Flash point

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Keep container tightly closed in a dry, cool and well-ventilated place.
Store only in the original receptacle.
Information about storage in one common storage facility: Keep away from: Oxidising agents, strong
Further information about storage conditions: Storage temperature: <50°C
Storage class: 10

7.3 Specific end use(s) Observe the technical data sheet

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:
The data sheets of the upstream suppliers and lists valid at the time of production serve as a basis.

8.2 Exposure controls
Appropriate engineering controls Ensure sufficient ventilation and spot extraction at critical points.

(Contd. on page 4)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 3)

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Observe the usual precautions for handling chemicals. Store work clothing separately. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke during work time.
Respiratory protection:
Not necessary if room is well-ventilated.
Fog generation/formation: Filter unit with filter or fan filter unit type:A2 P2
Hand protection
Protective gloves according to EN 374.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Preventive skin protection by use of skin-protecting agents is recommended.
Material of gloves
Nitrile rubber, NBR
Recommended thickness:> 0.35 mm.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
>480min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection



Tightly sealed goggles

EN 166
Body protection:
The type of personal protective equipment must be selected according to the concentration and quantity of the hazardous substance at the workplace. Body protection (in addition to the usual work clothing) is required to protect against direct skin contact.
Chemical resistant safety shoes.
Environmental exposure controls
Technical measures to prevent exposure
Organisational measures to prevent exposure

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	yellow light brown
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	Undetermined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	0.6 Vol %
Upper:	6.5 Vol %
Flash point:	> 240 °C (DIN ISO 2592)

(Contd. on page 5)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 4)

Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic at 40°C	663.2 mm²/s (DIN 51562)
Dynamic:	Not determined
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 15 °C:	0.897 g/cm³ (DIN EN ISO 12185)
Relative density	Not determined
Vapour density	Not determined
Particle characteristics	Does not apply to liquids.

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined
Explosive properties:	Not determined
Change in condition	
Drip point:	
Pour point	<-21 °C (ISO 3016)
Evaporation rate	Not determined

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No hazardous reactions when stored and handled according to prescribed instructions.
10.2 Chemical stability No decomposition occurs when stored and used as intended.
10.3 Possibility of hazardous reactions
The formation of combustible vapors is possible at temperatures above the flashpoint
10.4 Conditions to avoid Oxidizer, strong
10.5 Incompatible materials: No further relevant information available.

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 5)

10.6 Hazardous decomposition products: Refer to section 5.2.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:		
CAS: 68937-96-2 Polysulphides, di-tert-Bu		
Oral	LD50 oral	>2,000 mg/kg (Rat)
Dermal	LD50 dermal	>2,000 mg/kg (Rat)
Reaction products of dihydro-3-(tetrapropenyl)furan-2,5-dione with propane-1,2-diol		
Oral	LD50 oral	300.03 mg/kg (Rat)
Dermal	LD50 dermal	>2,000 mg/kg

Primary irritant effect:
Skin corrosion/irritation
Based on available data, the classification criteria are not met.
Frequent and prolonged skin contact may cause skin irritation.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity 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.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-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 (about experimental toxicology):
Specific effects in animal experiments: No data available for the preparation/mixture.

Additional toxicological information:		
Oral	ATE	>2,000 mg/kg (Calculated)
Dermal	ATE	>2,000 mg/kg (Calculated)
Inhalative	ATE Dust/Mist	>5 mg/L (Calculated)
	ATE Vapour	>20 mg/L (Calculated)

11.2 Information on other hazards

Endocrine disrupting properties
This product does not contain any substance (> 0.1%) with endocrine disrupting properties towards non-target organisms, as no ingredient fulfils the criteria.
Other information No data is available for the mixture.

SECTION 12: Ecological information

12.1 Toxicity There are no data available for the preparation/mixture.

Aquatic toxicity:	
CAS: 68937-96-2 Polysulphides, di-tert-Bu	
ErC50	>1.89 mg/l /72 h (algae)
EC50	0.255 mg/L /48 h (Daphnia magna)
LC50	0.681–4.016 mg/L /96 (Fish)

12.2 Persistence and degradability

There are no data for the preparation/mixture itself.
Not readily biodegradable (according to OECD criteria). Data refer to the main component.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

(Contd. on page 7)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 6)

PBT: Not applicable
vPvB: Not applicable

12.6 Endocrine disrupting properties
The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

12.7 Other adverse effects
Additional ecological information:
General notes:
The product may not be released into the environment without control.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
The product that has become waste must be disposed of in accordance with the statutory provisions applicable to waste oil; in particular, the highest possible quality of recycling must be sought.
The allocation of waste code numbers/waste designations is to be carried out according to EAVK on a sector- and process-specific basis.
When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed.
Dispose of waste according to applicable legislation.

European waste catalogue	
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

Uncleaned packaging:
Recommendation:
Oil packaging is considered to be packaging containing harmful substances. It is therefore excluded from collection by systems for the nationwide take-back of packaging.
Oil packaging that has been emptied down to the residues that usually remain inside is subject to take-back by manufacturers and distributors.

SECTION 14: Transport information

14.1 UN number or ID number **ADR, IMDG, IATA**	not regulated
14.2 UN proper shipping name **ADR, IMDG, IATA**	not regulated
14.3 Transport hazard class(es) **ADR, ADN, IMDG, IATA** **Class**	not regulated
14.4 Packing group **ADR, IMDG, IATA**	not regulated
14.5 Environmental hazards:	ENVIRONMENTALLY HAZARDOUS: no
14.6 Special precautions for user	Not applicable
14.7 Maritime transport in bulk according to IMO instruments	Not applicable
UN "Model Regulation":	not regulated

(Contd. on page 8)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 7)

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms Void
Signal word Void
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category Not subject to 2012/18/EU (SEVESO III)
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 75

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:

Waterhazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.
(according to AwSV, Germany)

Other regulations, limitations and prohibitive regulations
The national legal regulations must also be observed!
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008	
Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

(Contd. on page 9)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 09.10.2026 Version number 7.00 (replaces version 6.00) Revision: 09.10.2026

Trade name: CLASSIC ILSAN GM 680

(Contd. of page 8)

Department issuing SDS: product management
Contact: product management
Date of previous version: 11.09.2026
Version number of previous version: 6.00
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
*** Data compared to the previous version altered.**