

Shell Gadus S5 V42P 2.5

Safety Data Sheet

According to ICOP 2014

Issue date: 08/07/2025

Revision date: 8/7/2025

Supersedes:

Version: 1.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Name	Shell Gadus S5 V42P 2.5
Product form	Mixture
Product code	BU ET&A

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use	Lubricant
Restrictions on use	For professional use only

1.4. Supplier details

Supplier

Maagtechnic AG
Sonnentalstrasse 8
CH-8600 Dübendorf 1
Switzerland
T +41 44 824 91 91
lubeinfo@maagtechnic.com

Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
9494 Schaan
Liechtenstein
T +423 234 2111
product.compliance-power.tools@hilti.com

1.5. Emergency phone number

Emergency number	GBK GmbH Global Regulatory Compliance +49 (0)6132-84463
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Country	Organisation/Company	Address	Emergency number	Comment
Malaysia	Malaysia National Poison Centre (NPC) Universiti Sains Malaysia	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm)	

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Signal word (GHS MY)	-
Hazard statements (GHS MY)	H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS MY)	P273 - Avoid release to the environment P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards that do not result in classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)
Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear	CAS-No.: 848301-69-9	60 – 80	Flam. Liq. Not classified Acute Tox. Not classified (Oral) Asp. Haz., H304
zinc naphthenate	CAS-No.: 84418-50-8	0.1 – <1	Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute Not classified Aquatic Chronic 2, H411
zinc oxide	CAS-No.: 1314-13-2	0.1 – <1	Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS-No.: 68411-46-1	0.1 – <1	Repr. 2, H361f Aquatic Acute Not classified Aquatic Chronic 3, H412

SECTION 4: First-aid measures

4.1. Description of necessary first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.
First-aid measures after eye contact	IF IN EYES: 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.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact	Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Necrosis. High pressure injection of product under the skin can have very serious consequences even without apparent symptoms or injuries.
Symptoms/effects after ingestion	Ingestion may cause nausea, vomiting and diarrhea.
Chronic symptoms	Symptoms may be delayed.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	Foam. Water spray. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Physicochemical hazards arising from the chemical

Fire hazard	No fire hazard.
Explosion hazard	No direct explosion hazard.
Reactivity in case of fire	Hazardous decomposition products in case of fire.
Hazardous decomposition products in case of fire	Carbon dioxide. Carbon monoxide. Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire fighters

Firefighting instructions	Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.
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

General measures	Spilled material may present a slipping hazard.
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6.1.1. For non-emergency personnel

Protective equipment	Wear recommended personal protective equipment.
Emergency procedures	Evacuate unnecessary personnel. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	Evacuate unnecessary personnel. Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect all waste in suitable and labelled containers and dispose according to local legislation.
Methods for cleaning up	Shovel into suitable and closed container for disposal.
Methods and Equipment for Containment and Cleaning up	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapours, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
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

Technical measures	Keep in a cool, well-ventilated place away from heat.
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Storage conditions

Keep cool. Protect from sunlight. Keep container closed when not in use. Keep only in original container.

Incompatible materials

PVC.

Heat and ignition sources

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

zinc oxide (1314-13-2)	
Malaysia - Occupational Exposure Limits	
Local name	Zink oksida # Zinc oxide
PEL (OEL TWA)	5 mg/m ³ Wasap # Fume 10 mg/m ³ Habuk # Dust
MEL (mg/m ³)	15 mg/m ³

Exposure limit values for the other components

No additional information available

8.1.1 Biological monitoring

Monitoring methods

A specific exposure sampling method is not available.

8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

8.3. Individual protection measures, such as PPE

Hand protection:
Protective gloves
Eye protection:
Wear security glasses which protect from splashes
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

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Physical state	Liquid
Appearance	Pasty.
Colour	light brown
Odour	characteristic
Odour threshold	No data available
pH	Not applicable
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	Upper explosion limit: 10 vol % (typical) Lower explosion limit: 1 vol % (typical)
Vapour pressure	Vapour pressure: < 0.5 Pa (estimated value)
Relative vapour density at 20°C	No data available
Relative density	0.9 (15 °C)
Solubility	Water: Negligible
Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product
Partition coefficient n-octanol/water (Log Kow)	No data available
Auto-ignition temperature	> 320 °C
Decomposition temperature	No data available
Viscosity, kinematic	42 mm²/s (40 °C) ASTM D445
Viscosity, dynamic	No data available
Density	900 kg/m³ (15 °C)
VOC content	0 %

SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use
Conditions to avoid	Direct sunlight, Extremely high or low temperatures
Incompatible materials	Strong oxidizing agents
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 (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear (848301-69-9)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
zinc naphthenate (84418-50-8)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 0.42 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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zinc oxide (1314-13-2)	
LD50 oral rat	> 2000 mg/kg OECD guideline No 401/423 micro- and nanomaterial zinc oxide
LD50 dermal rat	> 2000 mg/kg OECD guideline No 402 - nano zinc oxide
LC50 Inhalation - Rat	> 5.7 mg/l/4h OECD guideline No 403 - micro zinc oxide

Skin corrosion or irritation	Not classified pH: Not applicable
Serious eye damage or eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (STOT) – single exposure	Not classified
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration hazard	Not classified

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Viscosity, kinematic	42 mm²/s (40 °C) ASTM D445

Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Harmful to aquatic life with long lasting effects.
Other information	Avoid release to the environment.

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Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product

zinc naphthenate (84418-50-8)	
LC50 - Fish [1]	≈ 5.62 mg/l Test organisms (species): Pimephales promelas

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	
LC50 - Fish [1]	> 100 mg/l
LC50 - Other aquatic organisms [1]	> 100 mg/l
Bioconcentration factor (BCF REACH)	411

12.2. Persistence and degradability

Shell Gadus S5 V42P 2.5	
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

Shell Gadus S5 V42P 2.5	
Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product

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Shell Gadus S5 V42P 2.5	
Bioaccumulative potential	Not established.
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	
Bioconcentration factor (BCF REACH)	411

12.4. Mobility in soil

Shell Gadus S5 V42P 2.5	
Mobility in soil	No additional information available
Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product

12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available

SECTION 13: Disposal information

13.1. Disposal methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information	Avoid release to the environment.
Additional information	Do not re-use empty containers.

SECTION 14: Transportation information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

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Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental regulations specific for the hazardous chemical in question

Regulation	Component/ Mixture
EHS Notification and Registration Scheme	Applicable
EHS Notification and Registration Scheme	zinc oxide
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993	Not applicable
Environmental Quality (Industrial Effluent) Regulations 2009	Shell Gadus S5 V42P 2.5
Environmental Quality (Scheduled Wastes) Regulations 2007	Shell Gadus S5 V42P 2.5
Control of Industrial Major Accident Hazards Regulations 1996	Shell Gadus S5 V42P 2.5
Prohibition of Use of Substance Order 1999	Shell Gadus S5 V42P 2.5
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000	Shell Gadus S5 V42P 2.5
Chemical Weapons Convention Act	Shell Gadus S5 V42P 2.5
Corrosive and Explosive Substances and Offensive Weapons Act	Shell Gadus S5 V42P 2.5
Dangerous Drugs Act	Shell Gadus S5 V42P 2.5
Pesticides Act	Shell Gadus S5 V42P 2.5
Petroleum (Safety Measures) Act	Shell Gadus S5 V42P 2.5
Poisons Act 1952	Shell Gadus S5 V42P 2.5
Poisons (Psychotropic Substances) Regulations 1989	Shell Gadus S5 V42P 2.5

15.2. International agreements

No additional information available

SECTION 16: Other information

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Abbreviations and acronyms

ACGIH - American Conference of Government Industrial Hygienists
 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
 BCF - Bioconcentration factor
 BLV - Biological limit value
 BOD - Biochemical oxygen demand (BOD)
 CAS-No. - Chemical Abstract Service number
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
 COD - Chemical oxygen demand (COD)
 CSA - Chemical safety assessment
 DMEL - Derived Minimal Effect level
 DNEL - Derived-No Effect Level
 EC-No. - European Community number
 EC50 - Median effective concentration
 ED - Endocrine disruptor
 EN - European Standard
 EWC - European waste catalogue
 IARC - International Agency for Research on Cancer
 IATA - International Air Transport Association
 IMDG - International Maritime Dangerous Goods
 LC50 - Median lethal concentration
 LD50 - Median lethal dose
 LOAEL - Lowest Observed Adverse Effect Level
 Log Kow - Partition coefficient n-octanol/water (Log Kow)
 Log Pow - Partition coefficient n-octanol/water (Log Pow)
 MAK - maximum workplace concentration
 NOAEC - No-Observed Adverse Effect Concentration
 NOAEL - No-Observed Adverse Effect Level
 NOEC - No-Observed Effect Concentration
 N.O.S. - Not Otherwise Specified
 OECD - Organisation for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 OSHA - Occupational Safety Health Administration
 PBT - Persistent Bioaccumulative Toxic
 PNEC - Predicted No-Effect Concentration
 PPE - Personal protection equipment
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
 SDS - Safety Data Sheet
 STP - Sewage treatment plant
 TF - Technical function
 ThOD - Theoretical oxygen demand (ThOD)
 TLM - Median Tolerance Limit
 TWA - Time Weighted Average
 VOC - Volatile Organic Compounds
 vPvB - Very Persistent and Very Bioaccumulative
 UFI - Unique Formula Identifier
 None.

Other information

Full text of H-statements	
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Acute Tox. Not classified (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Not classified
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified

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Full text of H-statements	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Acute Not classified	Hazardous to the aquatic environment – Acute Hazard Not classified
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Haz.	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage or eye irritation, Category 2
Flam. Liq. Not classified	Flammable liquids Not classified
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361f	Suspected of damaging fertility
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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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.