

Shell Gadus S5 V42P 2.5

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

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SECTION 1: Identification

1.1 Product identifier

Product 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 uses and restrictions For professional use only
Recommended use Lubricant

1.4 Details of manufacturer or importer

Supplier

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

Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
Schaan 9494
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

Country	Organisation/Company	Address	Emergency number
New Zealand	National Poisons Centre		0800 764 766

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ)

Contains

Hazard statements (GHS NZ)

Prevention

Warning

zinc oxide (0.1 – <1 %); Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (0.1 – <1 %)

H361 - Suspected of damaging fertility or the unborn child

H412 - Harmful to aquatic life with long lasting effects

P273 - Avoid release to the environment.

P280 - Wear protective gloves.

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Response	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P333+P313 - If skin irritation or rash occurs: Get medical advice.
Disposal	P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear	CAS-No.: 848301-69-9	60 – 80	Asp. Tox. 1, H304
zinc naphthenate	CAS-No.: 84418-50-8	0.1 – <1	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
zinc oxide	CAS-No.: 1314-13-2	0.1 – <1	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, H361 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. Symptoms caused by exposure

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. Medical attention and special treatment

No additional information available

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SECTION 5: Fire-fighting measures

5.1. 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. Specific hazards arising from the chemical

Fire hazard	No fire hazard.
Explosion hazard	No direct explosion hazard.
General measures	Spilled material may present a slipping 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.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Keep in a cool, well-ventilated place away from heat.
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 - exposure standards

zinc oxide (1314-13-2)	
New Zealand - Occupational Exposure Limits	
Local name	Zinc oxide
WES-TWA (OEL TWA)	0.1 mg/m ³ r (The value for respirable dust) 2 mg/m ³
WES-STEL (OEL STEL)	0.5 mg/m ³ r (The value for respirable dust) 5 mg/m ³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

Monitoring methods	A specific exposure sampling method is not available.
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8.3. Engineering controls

Appropriate engineering controls	Ensure good ventilation of the work station.
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8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment	Avoid all unnecessary exposure.
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.
Other information	Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	Pasty.
Colour	light brown
Odour	characteristic
Odour threshold	No additional information available
pH	Not applicable

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Evaporation rate	No additional information available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	Melting point: Not applicable
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	> 320 °C
Flammability	No additional information available
Vapour pressure	Vapour pressure: < 0.5 Pa (estimated value)
Relative density	No additional information available
Density	Density: 900 kg/m³ (15 °C) Relative density: 0.9 (15 °C)
Solubility	Water: Negligible
Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product
Viscosity, kinematic	42 mm²/s (40 °C) ASTM D445
Viscosity, dynamic	No data available
Explosive properties	No data available
Explosive limits	1 vol % (typical) 10 vol % (typical)
Minimum ignition energy	No data available
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. Toxicity

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)
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

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zinc oxide (1314-13-2)	
LC50 Inhalation - Rat	> 5.7 mg/l/4h OECD guideline No 403 - micro zinc oxide
Skin corrosion/irritation	Not classified pH: Not applicable
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
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Viscosity, kinematic	42 mm²/s (40 °C) ASTM D445
zinc naphthenate (84418-50-8)	
Viscosity, kinematic	74.18 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

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.
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified
Other information	Avoid release to the environment.

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Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product
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)	
LC50 - Fish [1]	≈ 5.62 mg/l Test organisms (species): Pimephales promelas
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
zinc oxide (1314-13-2)	
	> 2000 mg/kg OECD guideline No 402 - nano zinc oxide
LD50 oral rat	> 2000 mg/kg OECD guideline No 401/423 micro- and nanomaterial zinc oxide

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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
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 considerations

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: Transport 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

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ADR	IMDG	IATA	RID
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

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

zinc oxide (1314-13-2)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003104

15.2. Chemical safety assessment

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	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2

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Full text of H-statements	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
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.