

# Shell Tellus S2 VX 46

## Safety Data Sheet

According to ICOP 2014

Issue date: 11/07/2025

Revision date: 11/7/2025

Supersedes:

Version: 1.0

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

#### 1.1. Product identifier

Name Shell Tellus S2 VX 46  
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 Hydraulic fluids and additives  
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](mailto: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](mailto: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	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)  
Not classified

#### 2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)  
No labelling applicable

#### 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

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the applicable regulations

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### 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 symptoms persist call 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

### 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.

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### 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	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	Keep cool. Protect from sunlight. Keep container closed when not in use. Keep only in original container.
Incompatible materials	PVC.
Packaging materials	Store always product in container of same material as original container.

## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters

No additional information available

#### 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.
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### 8.2. Appropriate engineering controls

Appropriate engineering controls	Ensure good ventilation of the work station.
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### 8.3. Individual protection measures, such as PPE

<b>Hand protection:</b>	
Protective gloves	
<b>Eye protection:</b>	
Safety glasses	
<b>Skin and body protection:</b>	
Wear suitable protective clothing	

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### 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

Physical state	Liquid
Appearance	No data available
Colour	clear
Odour	characteristic
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	> 280 °C (estimated value)
Flash point	220 °C ISO 2592
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 hPa (estimated value)
Relative vapour density at 20°C	No data available
Relative density	0.856 (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	46 mm²/s ASTM D445 (40 °C)
Viscosity, dynamic	No data available
Density	856 kg/m³ ISO 12185 (15 °C)

## 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

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Acute toxicity (inhalation)	Not classified
Skin corrosion or irritation	Not classified
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

Shell Tellus S2 VX 46	
Viscosity, kinematic	46 mm <sup>2</sup> /s ASTM D445 (40 °C)
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	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified
Other information	Avoid release to the environment.

Shell Tellus S2 VX 46	
Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product

### 12.2. Persistence and degradability

Shell Tellus S2 VX 46	
Persistence and degradability	No additional information available.

### 12.3. Bioaccumulative potential

Shell Tellus S2 VX 46	
Partition coefficient n-octanol/water (Log Pow)	> 6 Data from similar product
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

Shell Tellus S2 VX 46	
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

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### 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
<b>14.1. UN number or ID number</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>			
Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>			
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

#### 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	Not applicable

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EHS Notification and Registration Scheme	Not applicable	Shell Tellus S2 VX 46
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993		Shell Tellus S2 VX 46
Environmental Quality (Industrial Effluent) Regulations 2009		Shell Tellus S2 VX 46
Environmental Quality (Scheduled Wastes) Regulations 2007		Shell Tellus S2 VX 46
Control of Industrial Major Accident Hazards Regulations 1996		Shell Tellus S2 VX 46
Prohibition of Use of Substance Order 1999		Shell Tellus S2 VX 46
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		Shell Tellus S2 VX 46
Chemical Weapons Convention Act		Shell Tellus S2 VX 46
Corrosive and Explosive Substances and Offensive Weapons Act		Shell Tellus S2 VX 46
Dangerous Drugs Act		Shell Tellus S2 VX 46
Pesticides Act		Shell Tellus S2 VX 46
Petroleum (Safety Measures) Act		Shell Tellus S2 VX 46
Poisons Act 1952		Shell Tellus S2 VX 46
Poisons (Psychotropic Substances) Regulations 1989		Shell Tellus S2 VX 46

### 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

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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.