

# Safety Data Sheet according to Regulation (EC) No 1907/2006

Page 1 of 13

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LOCTITE STYCAST 2CN known as STYCAST 2 CN 1 KG

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

#### 1.1. Product identifier

LOCTITE STYCAST 2CN known as STYCAST 2 CN 1 KG

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

Intended use: Silicone sealant

## 1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

## 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

### 2.2. Label elements

## Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

**Contains** 

**Supplemental information** EUH210 Safety data sheet available on request.

### 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

# **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## General chemical description:

Silicone sealant

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Tetraethyl silicate	201-083-8	5- < 10 %	Flam. Liq. 3
78-10-4	01-2119496195-28		H226
			Acute Tox. 4; Inhalation
			H332
			Eye Irrit. 2
			H319
			STOT SE 3
			H335
Octamethylcyclotetrasiloxane	209-136-7	0,1-< 1 %	Flam. Liq. 3
556-67-2	01-2119529238-36		H226
			Repr. 2
			H361f
			Aquatic Chronic 4
			H413
			====
			EU. REACH Candidate List of Substances of
			Very High Concern for Authorization
			(SVHC)

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

Inhalation:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media
Suitable extinguishing media:

water, carbon dioxide, foam, powder

### Extinguishing media which must not be used for safety reasons:

High pressure waterjet

# 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

### Additional information:

In case of fire, keep containers cool with water spray.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

### 6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

## Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Keep container tightly sealed.

Store at room temperature.

Refer to Technical Data Sheet

### 7.3. Specific end use(s)

Silicone sealant

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

None

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	V 1	Short term exposure limit category / Remarks	Regulatory list
Tetraethyl orthosilicate 78-10-4 [ETHYL SILICATE]	10	85	Time Weighted Average (TWA):		IR_OEL
Tetraethyl orthosilicate 78-10-4 [TETRAETHYL ORTHOSILICATE]	5	44	Time Weighted Average (TWA):	Indicative	ECTLV

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental		Value			Remarks	
	Compartment	period	-	1	T		
			mg/l	ppm	mg/kg	others	
Tetraethyl silicate	aqua		0,192 mg/l				
78-10-4	(freshwater)						
Tetraethyl silicate	aqua (marine		0,0192				
78-10-4	water)		mg/l				
Tetraethyl silicate	aqua		10 mg/l				
78-10-4	(intermittent						
	releases)						
Tetraethyl silicate	sediment				0,83 mg/kg		
78-10-4	(freshwater)						
Tetraethyl silicate	sediment				0,083		
78-10-4	(marine water)				mg/kg		
Tetraethyl silicate	soil				0,05 mg/kg		
78-10-4							
Tetraethyl silicate	sewage		4000 mg/l				
78-10-4	treatment plant						
	(STP)						
Octamethylcyclotetrasiloxane	aqua		0,0015				
556-67-2	(freshwater)		mg/l				
Octamethylcyclotetrasiloxane	aqua (marine		0,00015				
556-67-2	water)		mg/l				
Octamethylcyclotetrasiloxane	sewage		10 mg/l				
556-67-2	treatment plant						
	(STP)						
Octamethylcyclotetrasiloxane	sediment				3 mg/kg		
556-67-2	(freshwater)						
Octamethylcyclotetrasiloxane	sediment				0,3 mg/kg		
556-67-2	(marine water)				, , , ,		
Octamethylcyclotetrasiloxane	oral				41 mg/kg		
556-67-2					1 8		
Octamethylcyclotetrasiloxane	soil				0,54 mg/kg		
556-67-2							

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Tetraethyl silicate 78-10-4	Workers	dermal	Acute/short term exposure -		56 mg/kg	
Tetraethyl silicate 78-10-4	Workers	Inhalation	systemic effects Acute/short term exposure - systemic effects		85 mg/m3	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Acute/short term exposure - local effects		85 mg/m3	
Tetraethyl silicate 78-10-4	Workers	dermal	Long term exposure - systemic effects		56 mg/kg	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Long term exposure - systemic effects		85 mg/m3	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Long term exposure - local effects		85 mg/m3	
Tetraethyl silicate 78-10-4	General population	dermal	Acute/short term exposure - systemic effects		3 mg/kg	
Tetraethyl silicate 78-10-4	General population	Inhalation	Acute/short term exposure - local effects		14 mg/m3	
Tetraethyl silicate 78-10-4	General population	Inhalation	Acute/short term exposure - systemic effects		14 mg/m3	
Tetraethyl silicate 78-10-4	General population	dermal	Long term exposure - systemic effects		3 mg/kg	
Tetraethyl silicate 78-10-4	General population	Inhalation	Long term exposure - systemic effects		14 mg/m3	
Tetraethyl silicate 78-10-4	General population	Inhalation	Long term exposure - local effects		14 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Long term exposure - systemic effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Long term exposure - local effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Acute/short term exposure - systemic effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Acute/short term exposure - local effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Long term exposure - systemic effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Long term exposure - local effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Acute/short term exposure - systemic effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Acute/short term exposure - local effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	oral	Long term exposure - systemic effects		3,7 mg/kg	
Octamethylcyclotetrasiloxane 556-67-2	General population	oral	Acute/short term exposure - systemic effects		3,7 mg/kg	

#### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

#### Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$ = 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance liauid colourless Odor None

Odour threshold No data available / Not applicable

pН No data available / Not applicable Melting point No data available / Not applicable Solidification temperature No data available / Not applicable Initial boiling point No data available / Not applicable Flash point  $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$ 

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable No data available / Not applicable Explosive limits Vapour pressure No data available / Not applicable Relative vapour density: No data available / Not applicable

Density 0,99 g/cm3

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Bulk density No data available / Not applicable Solubility No data available / Not applicable Solubility (qualitative) No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Auto-ignition temperature No data available / Not applicable No data available / Not applicable Decomposition temperature Viscosity No data available / Not applicable Viscosity (kinematic) No data available / Not applicable Explosive properties No data available / Not applicable Oxidising properties No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None if used for intended purpose.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

#### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

## **SECTION 11: Toxicological information**

### General toxicological information:

Prolonged or repeated contact may cause eye irritation.

Prolonged or repeated contact may cause skin irritation.

## 11.1. Information on toxicological effects

### Acute oral toxicity:

May cause irritation to the digestive tract.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Tetraethyl silicate 78-10-4	LD50	> 2.500 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Octamethylcyclotetrasilox ane 556-67-2	LD50	> 4.800 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

## Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Octamethylcyclotetrasilox	LD50	> 2.400 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
ane				
556-67-2				

## Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type		_	time		
Octamethylcyclotetrasilox	LC50	36 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute
ane						Inhalation Toxicity)
556-67-2						

## Skin corrosion/irritation:

No data available.

## Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Octamethylcyclotetrasilox	not irritating		rabbit	Draize Test
ane				
556-67-2				

## Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Tetraethyl silicate 78-10-4	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Octamethylcyclotetrasilox ane 556-67-2	not sensitising	not specified		Magnusson and Kligman Method

## Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
Tetraethyl silicate	negative	bacterial reverse	with and without		EU Method B.13/14
78-10-4		mutation assay (e.g			(Mutagenicity)
		Ames test)			
Octamethylcyclotetrasilox	positive	bacterial gene	with and without		not specified
ane		mutation assay			
556-67-2					
Octamethylcyclotetrasilox	positive	sister chromatid	with and without		not specified
ane		exchange assay in			
556-67-2		mammalian cells			
Octamethylcyclotetrasilox	negative	in vitro mammalian	with and without		not specified
ane		chromosome			
556-67-2		aberration test			
Octamethylcyclotetrasilox	positive	inhalation: vapour		rat	Chromosome Aberration Test
ane					
556-67-2					
Octamethylcyclotetrasilox	positive			rat	not specified
ane					
556-67-2					

### Carcinogenicity

No data available.

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No data available.

# STOT-single exposure:

No data available.

# STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Octamethylcyclotetrasilox	LOAEL 35 ppm	inhalation	6 h nose only	rat	OECD Guideline 412
ane			inhalation		(Repeated Dose
556-67-2			5 days/week for 13		Inhalation Toxicity:
			weeks		28/14-Day)

# Aspiration hazard:

No data available.

# **SECTION 12: Ecological information**

## General ecological information:

Do not empty into drains / surface water / ground water.

## 12.1. Toxicity

## **Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetraethyl silicate	LC50	> 245 mg/l	96 h	Brachydanio rerio (new name:	EU Method C.1 (Acute
78-10-4				Danio rerio)	Toxicity for Fish)
Octamethylcyclotetrasiloxane	NOEC	0,0044 mg/l	93 d	Salmo gairdneri (new name:	other guideline:
556-67-2				Oncorhynchus mykiss)	
Octamethylcyclotetrasiloxane	LC50		96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish
556-67-2					Acute Toxicity Test)

## Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetraethyl silicate	EC50	> 75 mg/l	48 h	Daphnia magna	OECD Guideline 202
78-10-4					(Daphnia sp. Acute
					Immobilisation Test)
Octamethylcyclotetrasiloxane	EC50		48 h	Daphnia magna	EPA OTS 797.1300
556-67-2					(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)

## Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Octamethylcyclotetrasiloxane 556-67-2	NOEC	7.9 μg/l	21 d		EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)

## Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetraethyl silicate 78-10-4	NOEC	22 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetraethyl silicate 78-10-4	EC50	> 22 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Octamethylcyclotetrasiloxane 556-67-2	EC50		96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Octamethylcyclotetrasiloxane 556-67-2	NOEC	< 0,022 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)

## Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Tetraethyl silicate	EC50	> 100 mg/l	3 h	activated sludge of a	OECD Guideline 209
78-10-4				predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)
Octamethylcyclotetrasiloxane	EC50		3 h	activated sludge	ISO 8192 (Test for
556-67-2					Inhibition of Oxygen
					Consumption by Activated
					Sludge)

# 12.2. Persistence and degradability

No data available.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Tetraethyl silicate	readily biodegradable	aerobic	98 %	28 d	OECD Guideline 301 A (old
78-10-4					version) (Ready Biodegradabiltiy:
					Modified AFNOR Test)
Octamethylcyclotetrasiloxane	not readily biodegradable.	aerobic	3,7 %	29 d	OECD Guideline 310 (Ready
556-67-2					BiodegradabilityCO2 in Sealed
					Vessels (Headspace Test)

## 12.3. Bioaccumulative potential

No data available.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Octamethylcyclotetrasiloxane 556-67-2	12.400	28 d		Pimephales promelas	EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow
				F	Trout)

# 12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances	LogPow	Temperature	Method
CAS-No.		_	
Tetraethyl silicate	0,04		QSAR (Quantitative Structure Activity Relationship)
78-10-4			
Octamethylcyclotetrasiloxane	6,488	25,1 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-
556-67-2			Stirring Method)

### 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Tetraethyl silicate 78-10-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Octamethylcyclotetrasiloxane 556-67-2	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## **SECTION 14: Transport information**

### 14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

# $15.1.\ Safety, health\ and\ environmental\ regulations/legislation\ specific\ for\ the\ substance\ or\ mixture$

VOC content < 5 % (2010/75/EC)

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

H413 May cause long lasting harmful effects to aquatic life.

### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.