# **Contact Sheet**



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

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SDS No.: 76578 V006.3

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

#### 1.1. Product identifier

TEROSON VR 10 BO1L EGFD

TEROSON VR 10 BO1L EGFD

#### **Contains:**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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

Intended use:

Surface pretreatment

#### 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 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# $\textbf{Classification} \ (\textbf{CLP}) \textbf{:}$

Flammable liquids Category 2

H225 Highly flammable liquid and vapor.

Skin irritation Category 2

H315 Causes skin irritation.

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness.

Aspiration hazard Category 1

H304 May be fatal if swallowed and enters airways.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



Signal word: Danger

**Hazard statement:** H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement:** P102 Keep out of reach of children.

**Precautionary statement:** 

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:** 

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. Response

P370+P378 In case of fire: Use CO2, dry chemical, or foam for extinction.

#### 2.3. Other hazards

Prevention

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

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:

Surface pretreatment

#### Base substances of preparation:

Hydrocarbon mixture, low aromatics

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

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Hydrocarbons, C6-C7, n-alkanes,	295-763-1, 921-	80- 100 %	Flam. Liq. 2
isoalkanes, cyclics, <5% n-hexane	024-6		H225
92128-66-0	01-2119475514-35		Asp. Tox. 1
			H304
			Skin Irrit. 2
			H315
			STOT SE 3
			H336
			Aquatic Chronic 2
			H411
n-Hexane	203-777-6	1-< 3 %	Flam. Liq. 2
110-54-3	01-2119480412-44		H225
			Repr. 2
			H361f
			Asp. Tox. 1
			H304
			STOT RE 2
			H373
			Skin Irrit. 2
			H315
			STOT SE 3
			H336
			Aquatic Chronic 2
			H411

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.

Declaration of ingredients according to Detergent Regulation 648/2004/EC

> 30 %

aliphatic hydrocarbons

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water. In case of adverse health effects seek medical advice.

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.

After ingestion or vomit: danger of product entering the lung.

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

ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia or pulmonary oedema

SKIN: Redness, inflammation.

Vapors may cause drowsiness and dizziness.

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

Do not induce vomiting.

Seek medical attention from a specialist.

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

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# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

All common extinguishing agents are suitable.

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

Water jet (solvent-containing product).

### 5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

#### 5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

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

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

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

#### 6.2. Environmental precautions

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

Inform authorities in the event of product spillage to water courses or sewage systems.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

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 open flames and sources of ignition.

Ground/bond container and receiving equipment.

Use explosion proof electric equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

#### Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Take off contaminated clothing and wash before reuse.

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

Ensure good ventilation/extraction.

Keep away from heat and direct sunlight.

Do not store near sources of heat or ignition, or reactive materials.

< + 25 °C

Storage at 5 to 25°C is recommended.

#### 7.3. Specific end use(s)

Surface pretreatment

TEROSON VR 10 BO1L EGFD

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

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):		EH40 WEL
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative	ECTLV

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative	ECTLV
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Can be absorbed through the skin.	IR_OEL

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	Workers	dermal	Long term		773 mg/kg	
cyclics, <5% n-hexane			exposure -			
92128-66-0			systemic effects			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	Workers	inhalation	Long term		2035 mg/m3	
cyclics, <5% n-hexane			exposure -			
92128-66-0			systemic effects			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	General	dermal	Long term		699 mg/kg	
cyclics, <5% n-hexane	population		exposure -			
92128-66-0			systemic effects			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	General	inhalation	Long term		608 mg/m3	
cyclics, <5% n-hexane	population		exposure -			
92128-66-0			systemic effects			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	General	oral	Long term		699 mg/kg	
cyclics, <5% n-hexane	population		exposure -			
92128-66-0			systemic effects			
n-Hexane	General	inhalation	Long term		16 mg/m3	
110-54-3	population		exposure -			
			systemic effects			
n-Hexane	Workers	dermal	Long term		11 mg/kg	
110-54-3			exposure -			
			systemic effects			
n-Hexane	General	dermal	Long term		5,3 mg/kg	
110-54-3	population		exposure -			
			systemic effects			
n-Hexane	Workers	inhalation	Long term		75 mg/m3	
110-54-3			exposure -			
			systemic effects			
n-Hexane	General	oral	Long term		4 mg/kg	
110-54-3	population		exposure -			
			systemic effects			

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

None

#### 8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

#### Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

#### 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; >= 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:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

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

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway).

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 liquid

thin, liquid colourless

Odor of petrol

Odour threshold No data available / Not applicable

pH No data available / Not applicable
Melting point No data available / Not applicable
Solidification temperature No data available / Not applicable

Initial boiling point 85 °C (185 °F)

(1.013 hPa)

Flash point -15,5 °C (4.1 °F); DIN 51755 Closed cup flash point

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable Explosive limits No data available / Not applicable

Vapour pressure 85 hPa

(20 °C (68 °F))

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Relative vapour density: No data available / Not applicable

Density 0,705 g/cm3

(20 °C (68 °F))

Bulk density No data available / Not applicable Solubility No data available / Not applicable

Solubility (qualitative) Not miscible

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
No data available / Not applicable

Viscosity (kinematic) 0,61 mm2/s

(25 °C (77 °F); )

Explosive properties No data available / Not applicable Oxidising properties No data available / Not applicable

#### 9.2. Other information

Flow cup viscosity 9

(23 °C (73.4 °F); Nozzle: 4 mm DIN EN ISO 2431; QP2017.1, QP1580.0; Running out time with flow cups)

Ignition temperature 250 °C (482 °F) max. VOC content: 705,00 g/l

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with strong oxidants.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

# 10.4. Conditions to avoid

Heat, flames, sparks and other sources of ignition.

#### 10.5. Incompatible materials

See section reactivity.

# 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### STOT-single exposure:

May cause drowsiness or dizziness.

#### **Aspiration hazard:**

May be fatal if swallowed and enters airways.

# Skin irritation:

Causes skin irritation.

# Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Hydrocarbons, C6-C7, n-	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
alkanes, isoalkanes,						Oral Toxicity)
cyclics, <5% n-hexane						
92128-66-0						
n-Hexane	LD50	16.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
110-54-3						Oral Toxicity)

# Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
n-Hexane	LC50		vapour	24 h	rat	OECD Guideline 403 (Acute
110-54-3						Inhalation Toxicity)

# Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
n-Hexane 110-54-3	LD50	> 2.000 mg/kg	dermal		rabbit	not specified

#### Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time	_	

# Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
n-Hexane 110-54-3	not irritating		rabbit	not specified

# Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
n-Hexane 110-54-3	not sensitising	Mouse local lymphnod	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
		e assay (LLNA)		

# Germ cell mutagenicity:

Hazardous components	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
n-Hexane	negative	bacterial reverse	with and without		OECD Guideline 471
110-54-3		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
		gene mutation assay			Mammalian Cell Gene
					Mutation Test)
n-Hexane	negative	inhalation: vapour		mouse	not specified
110-54-3					
	negative	inhalation: vapour		rat	not specified

### Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure timeFrequenc y of treatment	Route of application	Method
n-Hexane 110-54-3		mouse	female	2 y 6 h/d; 5 d/w	inhalation: vapour	OECD Guideline 451 (Carcinogenicity Studies)

# Reproductive toxicity:

Hazardous substances	Result / Classification	Species	Exposure	Species	Method
CAS-No.			time		
n-Hexane	NOAEL P = 9000 ppm	Two	10 w	rat	OECD Guideline 416 (Two-
110-54-3	NOAEL $F1 = 3000 \text{ ppm}$	generation			Generation Reproduction
	NOAEL $F2 = 3000 \text{ ppm}$	study			Toxicity Study)
		inhalation:			
		vapour			

### Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
n-Hexane 110-54-3	NOAEL=586 mg/kg	oral: gavage	90 d5 d/w	rat	not specified
n-Hexane 110-54-3	NOAEL=500 ppm	inhalation: vapour	90 d6 h/d; 5 d/w	mouse	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

# **SECTION 12: Ecological information**

### General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Do not empty into drains, soil or bodies of water.

# 12.1. Toxicity

## **Ecotoxicity:**

Toxic to aquatic life with long lasting effects.

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
Hydrocarbons, C6-C7, n-	EC50	3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
alkanes, isoalkanes, cyclics,						202 (Daphnia sp.
<5% n-hexane						Acute
92128-66-0						Immobilisation
H-dd CC C7	MOEC	0.17 /1	-1	21 d	Dankaia aasaa	Test) OECD 211
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics,	NOEC	0,17 mg/l	chronic	21 d	Daphnia magna	
<5% n-hexane			Daphnia			(Daphnia magna, Reproduction Test)
92128-66-0						Reproduction Test)
n-Hexane	LC50	> 1 - 10 mg/l	Fish			OECD Guideline
110-54-3	Leso	> 1 10 mg 1	1 1511			203 (Fish, Acute
						Toxicity Test)
n-Hexane	EC50	2,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
110-54-3						202 (Daphnia sp.
						Acute
						Immobilisation
						Test)
n-Hexane	EC50	> 1 - 10 mg/l	Algae			OECD Guideline
110-54-3						201 (Alga, Growth
n-Hexane	EC 50	> 1 10 mg/l	Bacteria			Inhibition Test) OECD Guideline
110-54-3	EC 30	> 1 - 10 mg/l	Dacteria			209 (Activated
110-54-5						Sludge, Respiration
						Inhibition Test)

### 12.2. Persistence and degradability

# Persistence and degradability:

#### **Degradation of surfactants**

The product does not contain surface-active substances as defined in the EU Detergent Regulation (EC/648/2004).

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		
Hydrocarbons, C6-C7, n-	readily biodegradable	aerobic	98 %	OECD Guideline 301 F (Ready
alkanes, isoalkanes, cyclics,				Biodegradability: Manometric
<5% n-hexane				Respirometry Test)
92128-66-0				
n-Hexane	readily biodegradable, but	aerobic	> 60 %	not specified
110-54-3	failing 10-day window			

#### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous compo CAS-No.	nents LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
n-Hexane 110-54-3	4					not specified

#### 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
cyclics, <5% n-hexane	Bioaccumulative (vPvB) criteria.
92128-66-0	
n-Hexane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-54-3	Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

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.

Waste code

140603

# **SECTION 14: Transport information**

### 14.1. UN number

ADR	1268
RID	1268
ADN	1268
IMDG	1268
IATA	1268

# 14.2. UN proper shipping name

ADR	PETROLEUM DISTILLATES, N.O.S.
RID	PETROLEUM DISTILLATES, N.O.S.
ADN	PETROLEUM DISTILLATES, N.O.S.

IMDG PETROLEUM DISTILLATES, N.O.S. (Petroleum naphtha)

IATA Petroleum distillates, n.o.s.

### 14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

# 14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

# 14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
DADC	M 1144

IMDG Marine pollutant IATA not applicable

### 14.6. Special precautions for user

ADR	Special provision 640D
	Tunnelcode: (D/E)
RID	Special provision 640D
ADN	Special provision 640D
IMDG	not applicable
IATA	not applicable

# 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 100 %
(VOCV 814.018 VOC regulation CH)
VOC content 3,0 %

(2010/75/EU)

**VOC Paints and Varnishes (EU):** 

Regulatory Basis: Directive 2004/42/EC

Product (sub)category: B(a) Preparatory and cleaning products

Phase I (from 1.1.2007): 850 g/l 705,00 g/l 705,00 g/l

#### 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:

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

#### **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.