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### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier:

Product name: V-TUF COMBAT WIPES & ANTIVIRAL WIPES  
Product code: VTABW-90; VTABW-200, VTABW-200AV, VTABW-200CW

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

Supplied for use as a sanitising wipe

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

Fenco Group Ltd  
Till Bridge Lane  
Scampton  
Lincoln  
LN1 2SX  
United Kingdom

Telephone number: +44 (0) 1522 787978

Email: sales@v-tuf.com

#### 1.4 Emergency phone number

Emergency telephone number: +44 (0) 1522 787978

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFICATION according to Regulation EC 1272/2008 Classification, Labelling and Packaging

#### 2.2 Label Elements

Product Name: V-TUF Combat Wipes

Pictogram(s): [None]

Signal word: [None]

Hazard statements: [None]

Precautionary statements: P102 Keep out of reach of children

#### 2.3 Other Hazards

This mixture does not meet the PBT criteria of REACH Regulation, Annex XIII.

This mixture does not meet the vPvB criteria of REACH Regulation, Annex XIII.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Name:	CAS/EC No.	Index No./REACH Registration No.	Pictogram(s) according to 1272/2008:	H-phrases according to 1272/2008:	Concentrations (% w/w)
Propane-1,2-diol	57-55-6/ 200-338-0	-/ 01- 2119456809- 23	None	None  Substance with Workplace Exposure Limit	≤ 1.0

The full hazard information for individual components if not displayed in section 2 or 3 are displayed in Section 16.

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## 4.0. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 Inhalation

IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.2 Skin & Eye exposure

If skin irritation occurs: Get medical advice/attention.

In case of contact with eyes, rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice and attention.

#### 4.1.3 Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Get medical advice and attention if unwell or concerned.

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

None reported.

See SECTION 11 for more detailed information on health effects and symptoms.

### 4.3 Indications of any immediate medical attention and special treatment needed

#### Notes to physician

No specific treatment. Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable

Product is not flammable.

Alcohol-resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Water fog.

#### Not suitable

High volume water jet.

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

Specific hazards during firefighting: The vapour may be invisible, heavier than air and spread along ground.

Vapours may form explosive mixtures with air. Flash back possible over considerable distance.

Hazardous combustion products: Not known.

### 5.3 Advice for firefighters

Firefighting instructions : Evacuate and limit access. Use a water spray to cool exposed surfaces and to protect firefighters.

Protection during firefighting : Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

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## 6. ACCIDENTAL RELEASE MEASURES

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

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

Emergency procedures : Evacuate the danger area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Consult an expert. Eliminate every possible source of ignition.

Avoid contact with skin and eyes.

### 6.2 Environmental Precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

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

For containment : Prevent liquid from entering sewers, watercourses, underground or low areas. Impound and recover large spill by mixing it with inert granular solids.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it and place in container for disposal according to local/national regulations.

### 6.4 Reference to other sections

**Note: see SECTION 1 for emergency contact information, SECTION 8 for personal protection and section 13 for waste disposal.**

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## 7. HANDLING AND STORAGE

### 7.1 Precaution for safe handling

Precautions for safe handling:

Keep container tightly closed. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area.

Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

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

Requirements for storage: Keep in an area equipped with solvent resistant flooring. Store areas and containers in original container.

Further information on storage conditions: Keep tightly closed in a dry and cool place. Keep away from direct sunlight.

Keep away from heat. Keep in a well-ventilated place.

Advice on common storage:

Keep away from food, drink and animal feeding stuffs.

### 7.3 Specific end use(s)

Supplied for professional use as a hand sanitising wipe

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

Workplace exposure Limits as defined by UK HSE in document EH40/2005 where available:

Substance	CAS number	Workplace Exposure Limit				Comments
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>	
Propane-1,2-diol total vapour and particulates	57-55-6	150	474	-	-	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives
particulates		-	10	-	-	

### Propane-1,2-diol:

#### PNECs:

freshwater:	260 mg/l
marine water:	26 mg/l
intermittent release:	183 mg/l
STP:	20000 mg/l
sediment (freshwater):	572 mg/kg
sediment (marine water):	57.2 mg/kg
soil	50 mg/Kg

#### DNELs:

Worker	Long-term exposure- systemic effects, Inhalation: 168 mg/m <sup>3</sup>
Worker	Long-term exposure - local effects, Inhalation: 10 mg/m <sup>3</sup>
Consumer	Long-term exposure- systemic effects, dermal: 213 mg/kg bw/day
Consumer	Long-term exposure- systemic effects, Inhalation: 50 mg/m <sup>3</sup>
Consumer	Long-term exposure- systemic effects, oral: 85 mg/kg bw/day
Consumer	Long-term exposure - local effects, Inhalation: 10 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure that there is sufficient ventilation of the area.

## Eye and face protection

Wear tightly fitting safety goggles and Face shield that meet EN 166 a/o ANSI Z87.1 standards

## Skin protection

When handling product wear chemical-resistant gloves.

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact. Always seek advice from glove suppliers. Select gloves approved to EU standard EN407.

Wear impermeable protective clothing, butyl rubber apron and boots.

## Inhalation

Provide a good standard of general ventilation. Use outdoors or ensure adequate air changes.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

(a) Appearance: white solid

(b) Odour: No data

(c) Odour threshold: No data

(d) pH: No data

(e) Melting point/freezing point: No data

(f) Initial boiling point and boiling range: No data

(g) Flash point: No data

(h) Evaporation rate: No data

(i) Flammability (solid, gas): No data

(j) Upper/lower flammability or explosive limits: No data

(k) Vapour pressure: No data

(l) Vapour density: No data

(m) Relative density: No data

(n) Solubility(ies): No data

(o) Partition coefficient: n-octanol/water: No data

(p) Auto-ignition temperature: No data

(q) Decomposition temperature: No data

(r) Viscosity: water-thin.

(s) Explosive properties: No data

(t) Oxidising properties: No data

### 9.2 Other Information

No other relevant information available.

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under normal conditions of use.

### 10.3 Possibility of hazardous reactions

Exothermic reaction with: Alkaline earth metals

### 10.4 Conditions to avoid

Keep out of direct sunlight.

## 10.5 Incompatible materials

Materials to avoid: Alkaline earth metals.

## 10.6 Hazardous decomposition products

None reported

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3

Acute toxicity:	Product not classified for acute toxicity.
Skin corrosion/irritation:	Product not classified as causing skin corrosion or Irritation
Serious eye damage/irritation:	Product not classified as causing eye damage or irritation
Respiratory or skin sensitisation:	Product not classified as causing respiratory or skin sensitisation
Germ cell mutagenicity:	No information specified.
Carcinogenicity:	No information specified.
Reproductive toxicity:	No information specified.
STOT-single exposure:	No information specified.
STOT-repeated exposure:	No information specified.
Aspiration hazard:	No information specified.

#### Information on ingredients where available:

##### Propan-1,2-diol:

###### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data: LD50 rat (oral): > 22,000 mg/kg  
(by inhalation): Study does not need to be conducted.

LD50 rabbit (dermal): > 2,000 mg/kg

No mortality was observed.

### 11.2. Information on other hazards

None available.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Mixture not classified as harmful to aquatic life.

#### Information on ingredients where available:

##### Propan-1,2-diol:

###### Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

###### Toxicity to fish:

LC50 (96 h) 40,613 mg/l, *Oncorhynchus mykiss* (Fish test acute, static)

###### Aquatic invertebrates:

EC50 (48 h) 18,800 mg/l, *Mysidopsis bahia*

## Aquatic plants:

EC50 (72 h) 24,200 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201)

## Microorganisms/Effect on activated sludge:

ECO (18 h) > 20,000 mg/l, Pseudomonas putida (aquatic)

## Chronic toxicity to fish:

Study scientifically not justified.

## Chronic toxicity to aquatic invertebrates:

No observed effect concentration (7 d), 13,020 mg/l, Ceriodaphnia sp.

## Assessment of terrestrial toxicity:

Study does not need to be conducted.

### 12.2 Persistence and degradability

Information not available.

### 12.3 Bioaccumulative potential

Information not available.

### 12.4 Mobility in soil

Information not available.

### 12.5 Results of PBT and vPvB assessment

No additional information available

### 12.6 Other adverse effects

No additional information available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Additional information : Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Notify authorities if product enters sewers or public waters.

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## 14. TRANSPORT INFORMATION

**14.1 UN number:** Not classified.

**14.2 UN proper shipping name:** Not classified.

**14.3 Transport hazard:** Not classified.

**14.4 Packing group:** Not classified.

**14.5 Environmental hazards:** None

**14.6 Special precautions for user:** No information available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

Applicable for Maritime bulk transport only. Check with carrier.

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## 15. REGULATORY INFORMATION

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

This substance is classified and labelled in accordance with regulation 1272/2008 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

## 15.2 Chemical Safety Assessment (CSA)

CSA not undertaken for this substance

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## 16. OTHER INFORMATION

### Reasons for update and changes:

Review of SDS.

Section 8	Addition of DNELs and PNECs for ingredient.
Section 9	Reformatting of physical chemistry data.
Sections 11 & 12	Addition of toxicity data and ecotoxicity data for ingredient.
Section 16	Addition of abbreviations.

### Abbreviations:

DNELs	Derived No-Effect Levels
LC/LD 50	Lethal Concentration/Lethal Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
PNECs	Predicted No-Effect Concentrations
vPvB	very Persistent, very Bioaccumulative

### SDS information:

This safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with regulation 1272/2008 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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