SAFETY DATA SHEET

Date: 25th April 2023
Version: 02
Revision number: 01
Supersedes: SDS dated 17th November 2020

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:

Manufacturer
V-TUF, Unit 5 Chris Sharp Building, Till Bridge Lane, Scampton, Lincoln, LN1 2SX UK
Authorised Representative for CE marking in the EU
Flexrep EU OÜ, Attn: E-Residency Hub, Ahtri tn 12, 10151 Tallinn, Estonia

1.4 Emergency phone number

Emergency telephone number: +353 18092166

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.
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Name:	CAS/EC No.	Index No./REACh Registration No.	Pictogram(s) according to 1272/2008:	H-phrase(s) according to 1272/2008:	Concentrations (% w/w)	Specific Conc. Limit/ M-Factor/ ATE
Propane-1,2-diol	57-55-6/ 200-338-0	-/ 01-2119456809-23	None	None Substance with Workplace Exposure Limit	≤ 1.0	-
Sodium benzoate	532-32-1/ 208-534-8	-/ 01-2119460683-35	 GHS07	Eye Irrit. 2; H319 Substance with Workplace Exposure Limit	≤ 0.2	-

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

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_2). 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: areas and containers	Keep in an area equipped with solvent resistant flooring. Store 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 in GESTIS Institut für Arbeitsshutz der Deutschen Gesetzlichen Unfallversicherung, where available:

Country:	**Substance and type:**	**Long-term exposure limit (8-hr TWA reference period)**		**Short-term exposure limit (15 minute reference period)**	
		ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$
Germany	Sodium benzoate, as benzoate	-	10 (1)(2)	-	20 (1)(2)(3)
Ireland	Propane-1,2-diol, particulates	-	10	-	-
	Propane-1,2-diol, total vapour and particulates	150	470	-	-
Latvia	Propane-1,2-diol, particulates	-	7	-	-
Norway	Propane-1,2-diol, total vapour and particulates	25	79	-	-
Poland	Propane-1,2-diol, particulates	-	100	-	-

Notes:
(1) Inhalable fraction
(2) Skin
(3) 15 minutes average value

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

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)	Physical state:	Solid
b)	Colour:	White
c)	Odour :	No data available
d)	Melting point/freezing point:	No data available
e)	Initial boiling point and boiling range:	No data available
f)	Flammability (gas, liquid, solid):	Not flammable
g)	Upper/lower explosion limits:	Not explosive
h)	Flash point:	No data available
i)	Auto-ignition temperature:	No data available
j)	Decomposition temperature:	No data available
k)	pH:	No data available
l)	Dynamic viscosity	Water thin.
m)	Solubility(ies)	No data available
n)	Partition coefficient: n-octanol/water:	No data available
o)	Vapour pressure:	No data available
p)	Density/relative density	No data available
q)	Relative vapour density	No data available
r)	Particle characteristics	No data available

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:	Not classified.
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitisation:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
STOT-single exposure:	Not classified.
STOT-repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

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:
EC0 (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
This substance is not considered to be persistent, bioaccumu-lating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
No additional information available

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.

EU Regulations
REGULATION (EC) No 1107/2009 of The European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

National Regulations/legislation:
Refer to applicable national classification, packaging and labelling legislation.

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

15.2 Chemical Safety Assessment (CSA)
No Chemical Safety Assessment under Regulation (EC) 1907/2006 has been carried out.

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16. OTHER INFORMATION
(a) Reasons for update and changes:
Review of SDS.
All sections Update to Regulation (EU) 2020/878.

Section 3	Addition of ingredient with Workplace Exposure Limit.
Section 8	Addition of DNELs and PNECs for ingredient.
	Addition of EU Workplace Exposure Limits.
Section 9	Reformatting of physical chemistry data.
Sections 11 & 12	Addition of toxicity data and ecotoxicity data for ingredient.
Section 16	Addition of abbreviations.

(b) Abbreviations and acronyms:

DNELs	Derived No-Effect Levels
Eye Irrit. 2	Eye Irritation Category 2
LC/LD 50	Lethal Concentration/Lethal Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
PNECs	Predicted No-Effect Concentrations
vPvB	very Persistent, very Bioaccumulative

(c) Key literature references and sources for data:

Component Safety Data Sheets.
ECHA Database.
ECHA Guidance on the compilation of safety data sheets.
ECHA guidance on the Application of the CLP Criteria.
GESTIS Institut für Arbeitsshutz der Deutschen Gesetzlichen Unfallversicherung.
Regulation (EU) 2020/878 (amending Annex II of REACh Regulation (EC) 1907/2006.

(d) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008:

Classification according to Regulation (EC) 1272/2008	Classification procedure
Not classified.	By calculation on basis of components and by application of expert judgement.

(e) Full text of any statements, which are not written out in full under sections 2 to 15:

H319 Causes serious eye irritation.

(f) Advice on any training appropriate for workers to ensure protection of human health and the environment.

Appropriate training.

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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