

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

### 1.1. Product identifier

Product form : Mixture  
Product name : DEFENCE+ HG  
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Industrial/Professional use spec : For General Use

#### 1.2.2. Uses advised against

No additional information available

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

Manufacturer/Supplier: TYGRIS Industrial

Unit 31, Kyle Road Industrial Estate  
Irvine  
Ayrshire  
KA12 8LE  
Tel +44 (0) 1294 311 066  
Fax +44 (0) 1294 277 115  
Email technical@tygrisindustrial.com

Further information obtainable from:

Technical Department

### 1.4. Emergency telephone number

Emergency number +44 (0) 1294 311 066

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11

Full text of R-phrases: see section 16

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : 

GHS02

Signal word (CLP) : -Danger  
Hazard statements (CLP) : H225 - Highly flammable liquid and vapour  
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting/... equipment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P370+P378 - In case of fire: Use foam, carbon dioxide or dry powder to extinguish

Security closing plug for children : No

Tactile warning : No

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol, ethyl alcohol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	>= 70	F; R11	Flam. Liq. 2, H225
2,2',2"-Nitrilotriethanol	(CAS No) 102-71-6 (EC no) 203-049-8 (REACH-no) 01-2119486482-31	0.06525 - 0.942	Not classified	Not classified
2,2'-iminodiethanol; diethanolamine	(CAS No) 111-42-2 (EC no) 203-868-0 (EC index no) 603-071-00-1 (REACH-no) 01-2119488930-28	0.00585 - 0.15	Xn; R22 Xn; R48/22 Xi; R41 Xi; R38	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Dam. 1, H318
Alcohols, C11-14-iso-, C13-rich, ethoxylated		0.00009 - 0.0588	Xi; R41 Xi; R38	Not classified
Cyclohexane	(CAS No) 110-82-7 (EC no) 203-806-2 (EC index no) 601-017-00-1	0.00009 - 0.0108	F; R11 Xn; R65 Xi; R38 R67 N; R50/53	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MONO PROPYLENE GLYCOL	(CAS No) 57-55-6 (EC no) 200-338-0 (REACH-no) 01-2119456809-23		Not classified	Not classified

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues  
 Digestion Do not induce vomiting. Give plenty of water to drink. Get medical attention.  
 Eye Contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wideapart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

No additional information available

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

Notes for the doctor Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam, carbon dioxide or dry powder

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

Fire hazard : Highly flammable liquid and vapour.  
 Explosion hazard : May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Keep containers cool by spraying with water to reduce explosion risks. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

### 6.1.2. For emergency responders

No additional information available

## 6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulator body.

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

Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

## 6.4. Reference to other sections

For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.  
Storage conditions : Keep in fireproof place. Keep container tightly closed.  
Incompatible materials : Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

MONO PROPYLENE GLYCOL (57-55-6)		
EU	IOELV TWA (mg/m <sup>3</sup> )	474 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	150 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	474 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
ethanol, ethyl alcohol (64-17-5)		
EU	IOELV TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	1000 ppm

### 8.2. Exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Clear, Colourless Gel.  
Colour : clear.  
Odour : Alcohol like.  
Odour threshold : No data available  
pH : 5.5  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : 30.2 °C  
Self ignition temperature : Not Self Igniting  
Decomposition temperature : No data available  
Flammability (solid, gas) : Highly flammable liquid and vapour  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : 0.87 g/m<sup>3</sup>  
Solubility : No data available  
Log Pow : No data available  
Viscosity, kinematic : No data available

Viscosity, dynamic : 11500 cP  
 Explosive properties : No data available  
 Oxidising properties : No data available  
 Explosive limits : No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Open flame. Direct sunlight.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

MONO PROPYLENE GLYCOL (57-55-6)	
LD50 oral rat	≥ 20000 mg/kg
LD50 dermal rabbit	≥ 2000 mg/kg
Toxic Conc. - LC 50	317 mg/l 2hours, (aerosol rabbit)
ethanol, ethyl alcohol (64-17-5)	
LD50 oral rat	6200 mg/kg
LC50 inhalation rat (mg/l)	124.7 mg/l/4h

Skin corrosion/irritation : Not classified  
pH: 5.5

Serious eye damage/irritation : Not classified  
pH: 5.5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Alcohol Hand Gel	
Viscosity, kinematic	13218390804.59770115 mm <sup>2</sup> /s

### SECTION 12: Ecological information

#### 12.1. Toxicity

MONO PROPYLENE GLYCOL (57-55-6)	
LC50 fishes 1	≥ 44000 mg/l (Trout, 96 hours)
LC50 other aquatic organisms 1	18340 mg/l (Cricodaphnia dubia (water flea) 48 hours))
LC50 other aquatic organisms 2	18800 mg/l (Mysidopsis bahia (saltwater mysid) 96 hours)
EC50 Daphnia 1	≥ 4850 mg/l (48 hours)
EC50 other aquatic organisms 1	19000 mg/l (Selenastrum capricornutum 96 hours)
NOEC (acute)	13020 mg/l (Ceridaphnia (water flea), static renewal, 7days)



# SAFETY DATA SHEET ALCOHOL HAND GEL TB2505, TB2599

according to Regulation (EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EU) 453/2010

ethanol, ethyl alcohol (64-17-5)	
LC50 fishes 1	8150 mg/l Leuciscus idus (Golden orfe)
EC50 Daphnia 1	9268 - 14221 mg/l

## 12.2. Persistence and degradability

MONO PROPYLENE GLYCOL (57-55-6)	
Persistence and degradability	Biodegradable.
Biodegradation	≥ 80 % (28 days)

ethanol, ethyl alcohol (64-17-5)	
Persistence and degradability	Readily biodegradable.

## 12.3. Bioaccumulative potential

MONO PROPYLENE GLYCOL (57-55-6)	
Bioaccumulative potential	The product has low potential for bioaccumulation.

## 12.4. Mobility in soil

MONO PROPYLENE GLYCOL (57-55-6)	
Ecology - soil	Soluble In Water.

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to ...  
Additional information : Handle empty containers with care because residual vapours are flammable.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA

### 14.1. UN number

No dangerous good in sense of transport regulations

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable



Packing group (RID) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No  
 Marine pollutant : No  
 Other information : No supplementary information available

#### 14.6. Special precautions for user

##### - Overland transport

No data available

##### - Transport by sea

No data available

##### - Air transport

No data available

##### - Inland waterway transport

No data available

##### - Rail transport

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions  
 Contains no REACH candidate substance  
 Contains no REACH Annex XIV substances.

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R22	Harmful if swallowed

R38	Irritating to skin
R41	Risk of serious damage to eyes
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

#### SDS EU (REACH Annex II)

*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*