



## SAFETY DATA SHEET

### HANDISAN

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

##### 1.1. Product identifier

Product name                   HANDISAN  
Product number                B5005/03  
Internal identification         C126

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

Identified uses                Hand cleaner. Disinfectant.

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

Supplier                         ARROW SOLUTIONS  
                                      RAWDON ROAD  
                                      MOIRA  
                                      SWADLINCOTE  
                                      DERBYSHIRE  
                                      DE12 6DA  
                                      TEL: +44 (0)1283 221044  
                                      FAX: +44 (0)1283 225731  
                                      sales@arrowchem.com

##### 1.4. Emergency telephone number

Emergency telephone         +44 (0) 777 8505 330

#### SECTION 2: Hazards identification

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

###### Classification

###### Physical hazards

Flam. Liq. 2 - H225

###### Health hazards

Not Classified

###### Environmental hazards

Not Classified

###### Classification (67/548/EEC or 1999/45/EC)

F;R11.

##### 2.2. Label elements

###### Pictogram



###### Signal word

Danger

###### Hazard statements

H225 Highly flammable liquid and vapour.

###### Precautionary statements

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>Ethyl alcohol</b>	<b>60-100%</b>
CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-2119457610-43-xxxx	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 2 - H225	F;R11
Eye Irrit. 2 - H319	
<b>TRICLOSAN</b>	<b>&lt;1%</b>
CAS number: 3380-34-5 EC number: 222-182-2	
M factor (Acute) = 100 M factor (Chronic) = 1	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R36/38. N;R50/53.
Eye Irrit. 2 - H319	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>GLYCERINE</b>	<b>&lt;1%</b>
CAS number: 56-81-5 EC number: 200-289-5 REACH registration number: 01-2119471987-18-XXXX	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	-

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

**Skin contact**

Use suitable lotion to moisturise skin.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. 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****Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

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May cause discomfort if swallowed.

### **Skin contact**

Repeated exposure may cause skin dryness or cracking.

### **Eye contact**

May cause discomfort.

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

#### **Notes for the doctor**

Treat symptomatically.

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## **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**

#### **Specific hazards**

Highly flammable liquid and vapour.

#### **Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl). Nitrous gases (NO<sub>x</sub>). Phosgene (COCl<sub>2</sub>).

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Cool containers exposed to flames with water until well after the fire is out.

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

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

#### **Personal precautions**

Wear protective gloves, eye and face protection. Take care as floors and other surfaces may become slippery. Avoid contact with eyes. Avoid inhalation of vapours. Provide adequate ventilation. Wash thoroughly after dealing with a spillage.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Do not discharge into drains or watercourses or onto the ground.

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

#### **Methods for cleaning up**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

### **6.4. Reference to other sections**

#### **Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet.

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

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Use biocides safely. Always read the label and product information before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

#### **Storage precautions**

Store at temperatures between 4°C and 40°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition

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sources. No smoking.

### **Storage class**

Flammable liquid storage.

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

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

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

### **8.1. Control parameters**

#### **Occupational exposure limits**

##### **Ethyl alcohol**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### **GLYCERINE**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

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### Ethyl alcohol (CAS: 64-17-5)

#### Ingredient comments

WEL = Workplace Exposure Limits

DNEL Industry - Inhalation; Short term : 1900 mg/m<sup>3</sup>  
 Industry - Dermal; Long term : 343 mg/kg/day  
 Industry - Inhalation; Long term : 950 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term : 950 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term : 206 mg/kg/day  
 Consumer - Inhalation; Long term : 114 mg/m<sup>3</sup>  
 Consumer - Oral; Long term : 87 mg/kg/day

PNEC - Fresh water; 0.96 mg/l  
 - Marine water; 0.79 mg/l  
 - Soil; 0.62 mg/kg  
 - STP; 580 mg/l

### GLYCERINE (CAS: 56-81-5)

DNEL Workers - Inhalation; Long term local effects: 56 mg/m<sup>3</sup>  
 General population - Inhalation; Long term local effects: 33 mg/m<sup>3</sup>  
 General population - Oral; Long term systemic effects: 229 mg/kg/day

PNEC - Fresh water; 0.885 mg/l  
 - Marine water; 0.0885 mg/l  
 - Intermittent release; 8.85 mg/l  
 - STP; 1000 mg/l  
 - Sediment (Freshwater); 3.3 mg/kg  
 - Sediment (Marinewater); 0.33 mg/kg  
 - Soil; 0.141 mg/kg

### TRIETHANOLAMINE (CAS: 102-71-6)

DNEL Workers - Inhalation; Long term systemic effects: 5.0 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 5.0 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 6.3 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 1.25 mg/m<sup>3</sup>  
 General population - Inhalation; Long term local effects: 1.25 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 3.1 mg/kg/day  
 General population - Oral; Long term systemic effects: 13.0 mg/kg/day

PNEC - Fresh water; 0.32 mg/l  
 - Marine water; 0.032 mg/l  
 - Intermittent release; 5.12 mg/l  
 - STP; 10.0 mg/l  
 - Sediment (Freshwater); 1.7 mg/kg  
 - Sediment (Marinewater); 0.17 mg/kg  
 - Soil; 0.151 mg/kg

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation.

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#### SECTION 9: Physical and Chemical Properties

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

##### Appearance

Viscous liquid. Liquid.

##### Colour

Water-white.

##### Odour

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Alcoholic.

### pH

pH (concentrated solution): 5.5 - 8.0

### Flash point

20°C PMCC (Pensky-Martens closed cup).

### Relative density

0.89 @ 25°C

### Viscosity

8000 -10000 cP @ 25°C

## 9.2. Other information

### Other information

Not determined.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### Stability

Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

Not determined.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

#### Materials to avoid

Flammable/combustible materials.

### 10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl). Nitrous gases (NO<sub>x</sub>). Phosgene (COCl<sub>2</sub>).

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Inhalation

Vapours may cause drowsiness and dizziness.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

Repeated exposure may cause skin dryness or cracking.

#### Eye contact

May cause discomfort.

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### Toxicological information on ingredients.

#### TRICLOSAN

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg)

4,300

Species

Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg)

9300

Species

Rabbit

#### GLYCERINE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg)

2,001.0

Species

Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg)

1000

Species

Rabbit

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## SECTION 12: Ecological Information

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### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

#### 12.1. Toxicity

Acute toxicity - fish

Not determined.

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### Ecological information on ingredients.

#### TRICLOSAN

##### Acute aquatic toxicity

###### **LE(C)<sub>50</sub>**

0.001 < L(E)C<sub>50</sub> ≤ 0.01

###### **M factor (Acute)**

100

##### **Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: 0.5 mg/l, Brachydanio rerio (Zebra Fish)

##### **Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 0.4 mg/l, Daphnia magna

##### Chronic aquatic toxicity

###### **M factor (Chronic)**

1

#### GLYCERINE

##### **Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: 54000 mg/l, Onchorhynchus mykiss (Rainbow trout)

##### **Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, >: > 10000 mg/l, Daphnia magna

##### **Acute toxicity - aquatic plants**

EC<sub>50</sub>, 72 hours: > 2900 mg/l, Freshwater algae

##### **Acute toxicity - microorganisms**

EC<sub>50</sub>, >: > 1000 mg/l, Activated sludge

### 12.2. Persistence and degradability

#### **Persistence and degradability**

The product contains substances which are not expected to be biodegradable.

### Ecological information on ingredients.

#### TRICLOSAN

##### **Persistence and degradability**

The product is not biodegradable.

### 12.3. Bioaccumulative potential

The product is not bioaccumulating.

### Ecological information on ingredients.

#### TRICLOSAN

The product is not bioaccumulating.

### 12.4. Mobility in soil

#### **Mobility**

The product is soluble in water.

### Ecological information on ingredients.

#### TRICLOSAN

##### **Mobility**

The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.



**HANDISAN****Ecological information on ingredients.****TRICLOSAN**

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

Not determined.

**Ecological information on ingredients.****TRICLOSAN**

Not known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information****14.1. UN number**

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (ethanol)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (ethanol)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (ethanol)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (ethanol)

**14.3. Transport hazard class(es)**

ADR/RID class	3
IMDG class	3
ICAO class/division	3

**Transport labels****14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

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Yes.

**14.6. Special precautions for user**

Tunnel restriction code (D/E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation**

Commission Regulation (EU) No 453/2010 of 20 May 2010.

**Guidance**

Workplace Exposure Limits EH40.

**15.2. Chemical safety assessment****SECTION 16: Other information****Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 11/06/2015**Revision** 2.0**Supersedes date** 14/11/2012**Risk phrases in full**

NC Not classified.

R11 Highly flammable.

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Hazard statements in full**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.