



## SAFETY DATA SHEET

### 2work Power Foam All Purpose Cleaner

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

##### 1.1. Product identifier

**Product name** 2work Power Foam All Purpose Cleaner  
**Product number** DB57168, ZP

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

**Identified uses** Cleaning agent.  
**Uses advised against** No specific uses advised against are identified.

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

**Supplier** VOW Europe Ltd  
 K House  
 Sheffield Business Park  
 Europa Link  
 Sheffield  
 S9 1XU  
 0844 980 8000  
 www.opinfo.net

##### 1.4. Emergency telephone number

**Emergency telephone** IN CASE OF EMERGENCY CALL:  
 +44 1865 407333 (24hr, Provided by Carechem 24)  
 +353 (0)1 809 2166 (Beaumont Hospital, Republic of Ireland only, 8am-10pm, 7 days a week)

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

**Physical hazards** Aerosol 1 - H222, H229  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



**Signal word** Danger

**Hazard statements** H222 Extremely flammable aerosol.  
 H229 Pressurised container: may burst if heated.

**Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P251 Do not pierce or burn, even after use.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P102 Keep out of reach of children.

## 2work Power Foam All Purpose Cleaner

### Detergent labelling

< 5% aliphatic hydrocarbons, < 5% anionic surfactants, < 5% non-ionic surfactants, Contains BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE

### 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>Petroleum gases, liquefied</b> CAS number: 68476-85-7                      EC number: 270-704-2	<b>1-5%</b>
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas (Liq.) - H280	
<b>2-Butoxyethanol</b> CAS number: 111-76-2                      EC number: 203-905-0                      REACH registration number: 01-2119475108-36-XXXX	<b>1-5%</b>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
<b>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> CAS number: 64742-47-8                      EC number: 926-141-6                      REACH registration number: 01-2119456620-43-XXXX	<b>1-5%</b>
<b>Classification</b> Asp. Tox. 1 - H304	
<b>Propan-2-ol</b> CAS number: 67-63-0                      EC number: 200-661-7                      REACH registration number: 01-2119457558-25-XXXX	<b>&lt;1%</b>
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	

## 2work Power Foam All Purpose Cleaner

<b>2-Aminoethanol</b>		<b>&lt;1%</b>
CAS number: 141-43-5	EC number: 205-483-3	REACH registration number: 01-2119486455-28-XXXX
<b>Classification</b>		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
STOT SE 3 - H335		
<b>Benzyl-C12-14-alkyldimethylammonium chlorides</b>		<b>&lt;1%</b>
CAS number: 68424-85-1	EC number: 939-350-2	REACH registration number: 01-2119970550-39-0000
M factor (Acute) = 10	M factor (Chronic) = 1	
<b>Classification</b>		
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
<b>Sodium hydroxide</b>		<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5	
<b>Classification</b>		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
<b>Ethanol</b>		<b>&lt;1%</b>
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225		

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### **General information**

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

##### **Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

## 2work Power Foam All Purpose Cleaner

<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	May be slightly irritating to eyes. May cause discomfort.

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

<b>Notes for the doctor</b>	Treat symptomatically.
-----------------------------	------------------------

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## 2work Power Foam All Purpose Cleaner

### SECTION 6: Accidental release measures

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

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Risk of explosion.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

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

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes. Avoid inhalation of vapours and spray/mists.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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

**Storage precautions** Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50°C/122°F. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

**Storage class** Chemical storage.

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

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## 2work Power Foam All Purpose Cleaner

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Petroleum gases, liquefied

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

##### 2-Butoxyethanol

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m<sup>3</sup>

Sk

##### Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### 2-Aminoethanol

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 3 ppm 7.6 mg/m<sup>3</sup>

Sk

##### Sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

##### Ethanol

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

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

## 2work Power Foam All Purpose Cleaner

<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Aerosol. Liquid.
<b>Colour</b>	White.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): 7-8
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

## 2work Power Foam All Purpose Cleaner

<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**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. Stable under the prescribed storage conditions.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated

##### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 64,749.64

###### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 40,793.02

###### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 407.93

###### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

###### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

###### Respiratory sensitisation



## 2work Power Foam All Purpose Cleaner

<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>IARC carcinogenicity</b>	Contains a substance/a group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	May be slightly irritating to eyes. May cause discomfort.
<b>Route of exposure</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	No specific target organs known.
<b><u>Toxicological information on ingredients.</u></b>	

### Water

**Toxicological effects** Not regarded as a health hazard under current legislation.

### Petroleum gases, liquefied

**Toxicological effects** Not regarded as a health hazard under current legislation.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

## 2work Power Foam All Purpose Cleaner

### Carcinogenicity

**Carcinogenicity** NOAEL 10000 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility - NOAEC 9000 ppm, Inhalation, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEC: 10426 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC 10000 ppmV/4hr/day, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### 2-Butoxyethanol

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,746.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Harmful if swallowed.

**ATE oral (mg/kg)** 1,746.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** cATpE: Converted Acute Toxicity Point Estimate. Harmful in contact with skin.

**ATE dermal (mg/kg)** 1,100.0

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** cATpE: Converted Acute Toxicity Point Estimate. Harmful if inhaled.

**ATE inhalation (vapours mg/l)** 11.0

#### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 24 hours, Rabbit Causes serious eye irritation.

#### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

## 2work Power Foam All Purpose Cleaner

<b>Carcinogenicity</b>	NOAEC 125 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<b>IARC carcinogenicity</b>	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse P REACH dossier information. Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEL: 50 ppm, Inhalation, Rabbit REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOAEL <69 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> 15000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> 3160 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC <sub>50</sub> 4951 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Repeated exposure may cause skin dryness or cracking.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Dose: 0.1 mL, 1 second, Rabbit REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEC 1100 mg/m <sup>3</sup> , Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	

## 2work Power Foam All Purpose Cleaner

**Reproductive toxicity - fertility** Fertility, One-generation study - NOAEL 750 mg/kg/day, Oral, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: >5220 mg/m<sup>3</sup>, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC >10400 mg/m<sup>3</sup>, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** 2.4 cSt @ 20°C Aspiration hazard if swallowed.

## Propan-2-ol

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 5840 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 1 second, Rabbit Causes serious eye irritation.

### Skin sensitisation

**Skin sensitisation** Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** NOAEL 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H336 May cause drowsiness or dizziness.

**Target organs** Central nervous system

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

## 2-Aminoethanol

### Acute toxicity - oral

## 2work Power Foam All Purpose Cleaner

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,515.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	REACH dossier information. Harmful if swallowed.
<b>ATE oral (mg/kg)</b>	500.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	1,025.0
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	IUCLID Harmful in contact with skin.
<b>ATE dermal (mg/kg)</b>	1,100.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	1.3
<b>Species</b>	Rat
<b>Notes (inhalation LC<sub>50</sub>)</b>	Supplier's information. Harmful if inhaled.
<b>ATE inhalation (dusts/mists mg/l)</b>	1.3
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.5 mL, 4 hours, Erythema/eschar score: Severe erythema (beef redness) to eschar formation preventing grading of erythema (4). REACH dossier information. Corrosive.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Dose: 0.005 mL, 10 seconds, Rabbit Causes serious eye damage.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEL 1000 ppm, Oral, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEL: 120 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	STOT SE 3 - H335 May cause respiratory irritation.

## 2work Power Foam All Purpose Cleaner

**Target organs** Respiratory system, lungs

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC 10 mg/m<sup>3</sup>, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Fatty acids, C16-18 and C18-unsatd.

**Toxicological effects** Not regarded as a health hazard under current legislation.

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat Supplier's information. Based on available data the classification criteria are not met.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,080.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 1,080.0

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 4 hours, Rabbit Primary dermal irritation index: 2.17 REACH dossier information. Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 1 hour, Rabbit Causes serious eye damage.

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Three-generation study - NOAEL 350 mg/kg/day, Oral, Rat P, F1 REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity:, Teratogenicity: - NOAEL: 300 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

## 2work Power Foam All Purpose Cleaner

**STOT - repeated exposure** NOAEL 125 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Alcohol C9-11, ethoxylated

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Harmful if swallowed.

**ATE oral (mg/kg)** 500.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 1 hour, Rabbit Causes serious eye damage.

#### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 250 mg/kg/day, Dermal, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 250 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 500 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Benzyl-C12-14-alkyldimethylammonium chlorides

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 795.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 795.0

#### Acute toxicity - dermal

## 2work Power Foam All Purpose Cleaner

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 3412.5 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 4 hours, Rabbit REACH dossier information. Corrosive.

### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosive to skin. Corrosivity to eyes is assumed.

### Skin sensitisation

**Skin sensitisation** Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** NOAEL >2000 ppm, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 61 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not relevant. Solid.

### (2-Hydroxyethyl)dimethyl[3-[(1-oxooctadecyl)amino]propyl]ammonium nitrate

### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

### Serious eye damage/irritation

**Serious eye damage/irritation** Irritating to eyes.

### Sodium hydroxide

### Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin.

### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosive to skin. Corrosivity to eyes is assumed.

### Skin sensitisation

**Skin sensitisation** Patch test - Human: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Aspiration hazard



## 2work Power Foam All Purpose Cleaner

**Aspiration hazard** Not relevant. Solid.

### 1,2-Benzisothiazol-3(2H)-one

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 675.3

**Species** Rat

**ATE oral (mg/kg)** 675.3

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit Supplier's information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: , 100% , Rabbit May cause serious eye damage.

#### Skin sensitisation

**Skin sensitisation** - Mouse: Sensitising.

### Ethanol

**Toxicological effects** Not regarded as a health hazard under current legislation.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 10470 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LD<sub>50</sub> 124.7 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Dose: 0.2 mL, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### Carcinogenicity

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

#### Reproductive toxicity

## 2work Power Foam All Purpose Cleaner

<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEL 15% , Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

<b>STOT - repeated exposure</b>	LOAEL ~4000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
---------------------------------	--

### 2-Methyl-2H-isothiazol-3-one

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 183.0

**Species** Rat

**ATE oral (mg/kg)** 183.0

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 242.0

**Species** Rat

**ATE dermal (mg/kg)** 242.0

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 0.11

**Species** Rat

**ATE inhalation (dusts/mists mg/l)** 0.11

#### Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosivity to eyes is assumed.

#### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

#### Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies.

#### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

#### Specific target organ toxicity - single exposure

## 2work Power Foam All Purpose Cleaner

**STOT - single exposure** Corrosive to the respiratory tract. May cause respiratory irritation.

**Target organs** Respiratory tract

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)**

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 64.0

**Species** Rat

**ATE oral (mg/kg)** 64.0

### Acute toxicity - dermal

**ATE dermal (mg/kg)** 300.0

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 0.33

**Species** Rat

**ATE inhalation (dusts/mists mg/l)** 0.33

### Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin. Causes burns.

### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosivity to eyes is assumed.

### Skin sensitisation

**Skin sensitisation** Epidemiological studies have shown evidence of skin sensitisation.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies.

### Reproductive toxicity

**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

## SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### Ecological information on ingredients.

**(2-Hydroxyethyl)dimethyl[3-[(1-oxooctadecyl)amino]propyl]ammonium nitrate**

## 2work Power Foam All Purpose Cleaner

**Ecotoxicity** Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

### 12.1. Toxicity

**Toxicity** Based on available data the classification criteria are not met.

### Ecological information on ingredients.

#### Water

**Toxicity** No negative effects on the aquatic environment are known.

#### Petroleum gases, liquefied

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 147.54 mg/l, Freshwater fish  
Estimated value.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 16.33 mg/l, Daphnia magna  
Estimated value.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 11.89 mg/l, Freshwater algae  
Estimated value.

#### 2-Butoxyethanol

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1474 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 1550 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 911 mg/l, Pseudokirchneriella subcapitata

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEL, 21 days: >100 mg/l, Brachydanio rerio (Zebra Fish)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 100 mg/l, Daphnia magna

#### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

#### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EL<sub>50</sub>, 48 hours: >10000 mg/l, Daphnia magna

## 2work Power Foam All Purpose Cleaner

**Acute toxicity - aquatic plants** EL<sub>50</sub>, 72 hours: >1000 mg/l, Pseudokirchneriella subcapitata

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOELR, 28 days: 0.173 mg/l, Oncorhynchus mykiss (Rainbow trout), Estimated value.

**Chronic toxicity - aquatic invertebrates** NOELR, 21 days: 1.22 mg/l, Daphnia magna, Estimated value.

### Propan-2-ol

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 24 hours: >10000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 7 days: 1800 mg/l, Scenedesmus quadricauda

### 2-Aminoethanol

**Toxicity** Based on available data the classification criteria are not met.

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 349 mg/l, Cyprinus carpio (Common carp)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 65 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 2.8 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - microorganisms** EC<sub>10</sub>, 30 minutes: >1000 mg/l, Activated sludge

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 41 days: 1.24 mg/l, Oryzias latipes (Red killifish)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.85 mg/l, Daphnia magna

### Fatty acids, C16-18 and C18-unsatd.

**Toxicity** No negative effects on the aquatic environment are known.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

**Toxicity** Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.67 mg/l, Lepomis macrochirus (Bluegill)

## 2work Power Foam All Purpose Cleaner

<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 7.6 mg/l, Hyalella azteca
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 47.3 mg/l, Scenedesmus subspicatus
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - fish early life stage</b>	NOEC, 90 days: 0.25 mg/l, Tilapia mossambica
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 1.18 mg/l, Daphnia magna

### Alcohol C9-11, ethoxylated

<b>Toxicity</b>	Based on available data the classification criteria are not met.
<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 2.5 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 1.4 mg/l, Selenastrum capricornutum

### Benzyl-C12-14-alkyldimethylammonium chlorides

<b>Toxicity</b>	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.
<b><u>Acute aquatic toxicity</u></b>	
<b>LE(C)<sub>50</sub></b>	0.01 < L(E)C <sub>50</sub> ≤ 0.1
<b>M factor (Acute)</b>	10
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 0.85 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 0.32 mg/l, Acartia tonsa
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 0.03 mg/l, Selenastrum capricornutum
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	1
<b>Short term toxicity - embryo and sac fry stages</b>	NOEC, 28 days: 0.032 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 0.0045 mg/l, Daphnia magna

### Sodium hydroxide

<b>Toxicity</b>	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.
<b><u>Acute aquatic toxicity</u></b>	

## 2work Power Foam All Purpose Cleaner

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 40.4 mg/l, Ceriodaphnia dubia

### 1,2-Benzisothiazol-3(2H)-one

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 96 hours: 1.9 mg/l, Mysisopsis bahia  
EC<sub>50</sub>, 48 hours: 2.94 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 0.38 mg/l, Pseudokirchneriella subcapitata

### Ethanol

**Toxicity** Based on available data the classification criteria are not met.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 11.5 mg/l, Chlorella vulgaris

#### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 9 days: 9.6 mg/l, Daphnia magna

### 2-Methyl-2H-isothiazol-3-one

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 4.77 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 0.85 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 0.158 mg/l, Algae

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)**

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.19 mg/l, Oncorhynchus mykiss (Rainbow trout)

## 2work Power Foam All Purpose Cleaner

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.16 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 0.027 mg/l, Selenastrum capricornutum
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	1

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Ecological information on ingredients.

#### Water

**Persistence and degradability** The product contains only inorganic substances which are not biodegradable.

#### Petroleum gases, liquefied

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 100%: 385.5 hours

#### 2-Butoxyethanol

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 90.4%: 28 days

#### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Persistence and degradability** Readily biodegradable but failing the 10-day window.

**Biodegradation** Water - Degradation ~5%: 3 days  
Water - Degradation 69%: 28 days

#### Propan-2-ol

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 53%: 5 days

**Biological oxygen demand** 1.19-1.72 g O<sub>2</sub>/g substance

**Chemical oxygen demand** 2.23 g O<sub>2</sub>/g substance

#### 2-Aminoethanol

**Phototransformation** Water - DT<sub>50</sub> : 10.742 hours  
Estimated value.

**Biodegradation** Water - Degradation >90%: 21 days



## 2work Power Foam All Purpose Cleaner

### Fatty acids, C16-18 and C18-unsatd.

**Persistence and degradability** The degradability of the product is not known.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 85%: 29 days

### Alcohol C9-11, ethoxylated

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 72%: 28 days

### Benzyl-C12-14-alkyldimethylammonium chlorides

**Persistence and degradability** The substance is readily biodegradable.

**Phototransformation** Water - DT<sub>50</sub> : 0.26 days

**Stability (hydrolysis)** pH4 - Recovery 94.6%: 30 days @ 25°C  
pH7 - Recovery 94.4%: 30 days @ 25°C  
pH9 - Recovery 99.5%: 30 days @ 25°C

**Biodegradation** Water - Degradation 95.5%: 28 days

### (2-Hydroxyethyl)dimethyl[3-[(1-oxooctadecyl)amino]propyl]ammonium nitrate

**Persistence and degradability** No data available.

### Sodium hydroxide

**Persistence and degradability** The product contains only inorganic substances which are not biodegradable.

### Ethanol

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 74%: 10 days

**Chemical oxygen demand** 1.99 g O<sub>2</sub>/g substance

### 2-Methyl-2H-isothiazol-3-one

**Biodegradation** - Degradation ~98%: Estimated value.  
Expected to be readily biodegradable.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

## 2work Power Foam All Purpose Cleaner

**Biodegradation** Water - DT<sub>50</sub> : 0.2 - 1.3 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not available.

### Ecological information on ingredients.

#### Water

**Bioaccumulative potential** Not applicable.

#### Petroleum gases, liquefied

**Bioaccumulative potential** No data available on bioaccumulation.

#### 2-Butoxyethanol

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Kow: 0.81

#### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Partition coefficient** Scientifically unjustified.

#### Propan-2-ol

**Bioaccumulative potential** Bioaccumulation is unlikely.

#### 2-Aminoethanol

**Bioaccumulative potential** BCF: 2.3, Estimated value. Bioaccumulation is unlikely.

**Partition coefficient** log Pow: -1.91

#### Fatty acids, C16-18 and C18-unsatd.

**Bioaccumulative potential** No data available on bioaccumulation.

#### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

**Bioaccumulative potential** BCFs: 159, Palaemonetes varians

**Partition coefficient** log Pow: 1.4

#### Alcohol C9-11, ethoxylated

**Bioaccumulative potential** BCF: 12.7, Fish Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 3.75

#### Benzyl-C12-14-alkyldimethylammonium chlorides

**Bioaccumulative potential** BCF: 67.62, Estimated value. Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 2.75

## 2work Power Foam All Purpose Cleaner

### (2-Hydroxyethyl)dimethyl[3-[(1-oxooctadecyl)amino]propyl]ammonium nitrate

**Bioaccumulative potential** No data available on bioaccumulation.

#### Sodium hydroxide

**Bioaccumulative potential** No data available on bioaccumulation.

#### 1,2-Benzisothiazol-3(2H)-one

**Partition coefficient** log Pow: 1.19

#### Ethanol

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: -0.35

#### 2-Methyl-2H-isothiazol-3-one

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: -0.75

### Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 0.401

#### 12.4. Mobility in soil

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

#### Ecological information on ingredients.

##### Water

**Mobility** Mobile.

##### Petroleum gases, liquefied

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

##### 2-Butoxyethanol

**Mobility** The product is miscible with water and may spread in water systems.

**Surface tension** 29.53 mN/m @ 20°C

##### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Mobility** The product has poor water-solubility.

##### Propan-2-ol

## 2work Power Foam All Purpose Cleaner

**Mobility** The product is soluble in water.

### 2-Aminoethanol

**Mobility** The product is soluble in water.

**Henry's law constant** 0.000000118 Pa m<sup>3</sup>/mol @ 25°C

### Fatty acids, C16-18 and C18-unsatd.

**Mobility** The product is insoluble in water.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

**Mobility** The product is soluble in water.

**Surface tension** 29.3-31.8 mN/m @ 25°C

### Alcohol C9-11, ethoxylated

**Mobility** The product is soluble in water.

### Benzyl-C12-14-alkyldimethylammonium chlorides

**Mobility** The product is soluble in water.

**Henry's law constant** 0.00000104 Pa m<sup>3</sup>/mol @ 25°C Estimated value.

**Surface tension** 28.27 mN/m @ 19.7°C

### (2-Hydroxyethyl)dimethyl[3-[(1-oxooctadecyl)amino]propyl]ammonium nitrate

**Mobility** No data available.

### Sodium hydroxide

**Mobility** The product is soluble in water.

### Ethanol

**Mobility** The product is soluble in water.

**Surface tension** 24.5 mN/m @ 20°C/68°F

### 2-Methyl-2H-isothiazol-3-one

**Mobility** No data available.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

**Mobility** No data available.

## 12.5. Results of PBT and vPvB assessment

### Ecological information on ingredients.

### Water

## 2work Power Foam All Purpose Cleaner

**Results of PBT and vPvB assessment** Not applicable. Substance is inorganic.

### Petroleum gases, liquefied

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 2-Butoxyethanol

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Propan-2-ol

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 2-Aminoethanol

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Fatty acids, C16-18 and C18-unsatd.

**Results of PBT and vPvB assessment** No data available.

### Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Alcohol C9-11, ethoxylated

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Benzyl-C12-14-alkyldimethylammonium chlorides

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### (2-Hydroxyethyl)dimethyl[3-[(1-oxooctadecyl)amino]propyl]ammonium nitrate

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Sodium hydroxide

## 2work Power Foam All Purpose Cleaner

**Results of PBT and vPvB assessment** Not applicable. Substance is inorganic.

### 1,2-Benzisothiazol-3(2H)-one

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Ethanol

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 2-Methyl-2H-isothiazol-3-one

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

### **SECTION 14: Transport information**

**General** For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

#### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

## 2work Power Foam All Purpose Cleaner

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class 2.2

ADR/RID classification code 5A,5O

ADR/RID label 2.2

IMDG class 2.2

ICAO class/division 2.2

ADN class 2.2

#### Transport labels



### 14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ICAO packing group None

ADN packing group None

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-D, S-U

ADR transport category 3

Tunnel restriction code (E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

## 2work Power Foam All Purpose Cleaner

<b>National regulations</b>	<p>Health and Safety at Work etc. Act 1974 (as amended).</p> <p>The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).</p> <p>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</p> <p>EH40/2005 Workplace exposure limits.</p> <p>The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).</p>
<b>EU legislation</b>	<p>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) (as amended).</p> <p>Commission Regulation (EU) No 453/2010 of 20 May 2010.</p> <p>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 (as amended).</p> <p>Dangerous Preparations Directive 1999/45/EC.</p> <p>Dangerous Substances Directive 67/548/EEC.</p> <p>Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).</p>

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Aerosol 3 - H229: : Expert judgement.
<b>Training advice</b>	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
<b>Issued by</b>	Emily Kirk
<b>Revision date</b>	09/03/2018
<b>Revision</b>	1.1
<b>SDS number</b>	740
<b>Hazard statements in full</b>	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>



## 2work Power Foam All Purpose Cleaner

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.