

**Reference:** : All PowerWash Wipes  
**Revision Date:** : 25 March 2014  
**Revision Number:** : Orig.  
**Trade Name:** : PowerWash Wipes

## 1. Identification of the substance and of the company undertaking

### 1.1 Product identifier

**Product Name:** PowerWash Wipes  
**Synonyms:** None

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

**Identified use(s):** SMT Adhesive cleaner  
**Uses advised against:** Follow supplier's recommendations on correct use of the product. Uses other than those covered by the exposure scenarios included in this safety data sheet are not supported. Food contact.

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

**Manufacturer/Supplier:** Adamtech Ltd  
7B Whitebridge Estate  
Stone  
Staffordshire  
ST15 8LQ

**Telephone:** : 0044 (0) 1785 286660

**Fax:** : 0044 (0) 1785 286661

### 1.4 Emergency telephone number

**In case of emergency call:** 0044 1785 286660 (not 24 hr)

## 2. HAZARDS IDENTIFICATION:

### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Flam. Liq. 3; H226

Asp. Tox. 1; H304

STOT SE 3; H336

### 2.1.2 Classification according to Directive 67/548/EEC (CHIP)

Flammable (R10)

Vapours may cause drowsiness and dizziness (R67)

Irritating to eyes and skin (R36/38)

Harmful by inhalation, in contact with skin if swallowed (R20/21/22)

## 2.2 Label Elements

### 2.2.1 Label according to Regulation (EC) No 1272/2008 (CLP)



<b>Signal word:</b>	Danger
<b>Hazard Statement(s):</b>	H226: Flammable liquid and vapour H302: Harmful if swallowed H312: Harmful if in contact with skin H315 Causes skin irritation H319: Causes serious eye irritation H332: Harmful if inhaled H336: May cause drowsiness and dizziness
<b>Precautionary Statement(s)</b>	P102: Keep out of the reach of children P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition Sources. No smoking P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P405: Store locked up P501: Dispose of contents/container to approved disposal facility
<b>Supplementary Hazard Information (EU):</b>	None

## 2.2.2 Label according to Directive 67/548/EEC (CHIP)

### Hazard Pictogram(s)



<b>Indications of danger:</b>	Xn; Harmful
<b>Hazard statements(s):</b>	R10: Flammable R20/21/22: Harmful by inhalation, in contact with skin and if swallowed R36/38: Irritating to eyes and skin
<b>Precautionary statement(s):</b>	S2: Keep out of the reach of children S23: Do not breath vapour S24/25: Avoid contact with skin and eyes S36/37 Wear suitable protective clothing and gloves S38: In case of insufficient ventilation, wear suitable respiratory equipment. S46: If swallowed, seek medical advice immediately and show this container or label S60: This material and its container must be disposed of as hazardous waste

### Other Hazards

No data available

## Section 3 Composition/Information on Ingredients

### 3.1 Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) No 1907/2006

### 3.2 Mixtures

Composition:

Identification	CAS No.	EC No.	(EC)1272/2008	67/548/EEC	%
2-butoxyethanol	111-76-2	203-905-0	Acute Tox. 4 H302,H312,H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319	R20/21/22 R36/38	50-100%
1-methoxy-2-propanol	107-98-2	203-539-1	Flam. Liq. 3,H226 STOT SE 3 H336	R10 R67	<10%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
<b>Eyes:</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 20 minutes. Get medical attention.
<b>Skin:</b>	Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
<b>Ingestion:</b>	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

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

Skin contact causes irritation, redness and pain. Repeated exposure may cause skin dryness or cracking. Eye contact may cause slight irritation, watering, redness and pain. Inhalation of vapours may cause drowsiness or dizziness. Ingestion may cause irritation of the mouth and digestive tract. If swallowed, aspiration into lungs may result in chemical pneumonia.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

**Suitable extinguishing media:** Carbon dioxide, AFFF, dry chemical

**Unsuitable extinguishing media:** Water jet

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

A fire will often produce a thick black smoke. Carbon monoxide (CO) may be produced if incomplete combustion.

### 5.3 Advice for firefighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Move undamaged containers from fire area if this can be done safely. Keep fire containers cool by spraying with water.

## 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1 For non-emergency personnel

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

Consult the safety measures listed under headings 7 and 8

#### 6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (see section 8). Contaminated clothing should be thoroughly cleaned.

### 6.2 Environmental precautions

Clean and control the leaks or spills with non-combustible absorbent material such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering the drains or waterways

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13)

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

### 6.3 Methods and materials for cleaning up

Clean preferably with a detergent, do not use solvents

## 7. HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled

### 7.1 Precautions for safe handling:

Handle in well ventilated areas

The vapours are denser than air. They can spread along the ground and form explosive mixtures with air.

Prevent the formulation of flammable or explosive concentrations in air and vapour concentrations higher than the occupational exposure limits.

#### Fire prevention:

Prevent the accumulation of electrostatic charges with connections to earth.

The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials.

Use the product where there are no naked flames or other sources of ignition and have protected electrical equipment.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures

For personal safety see section 8

Observe precautions stated on the label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Avoid inhaling dust.

#### Prohibited equipment and procedures

Smoking, eating and drinking are prohibited in premises where the preparation is used.

Never open the packages under pressure.

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

Keep the container tightly closed in a dry place.

Keep from all sources of ignition, heat and direct sunlight – do not smoke.

The floor must be impermeable and form a collecting basin so that in the event of an accidental spillage, the liquid cannot spread beyond this area.

### 7.3 Specific end use(s)

None specified

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

Occupational exposure limit

- UK/WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
111-76-22	25ppm	50ppm			
107-98-21	100ppm	150ppm			

### 8.2 Exposure Controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation to ensure that occupational exposure limits are not exceeded. Local extraction may be required. Eye wash facilities should be available in the work area. Contaminated clothing and shoes should be thoroughly washed before reuse.

#### 8.2.2 Personal protection

**Eye protection:** Goggles or safety glasses with side shields giving complete protection to eyes (EN166). Depending on conditions of use, close-fitting eye protection and a face shield may be necessary

**Skin protection:**

**Hand protection:** Chemical resistant gloves (EN374). Suitable glove material butyl rubber or nitrile (breakthrough time >240 minutes). Contact glove supplier to confirm suitable glove material, thickness and breakthrough times.

**Respiratory protection:** Where airborne levels below the exposure limits cannot be maintained, wear an air-purifying respirator (EN140) with a type A/P2 filter or better suitable for organic gasses and vapours with a boiling point above 65°C (EN14387)

**Thermal hazards:** Wear suitable temperature resistant gloves and protective clothing if the product is heated

#### 8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Solid
<b>Odour:</b>	Mild
<b>Odour threshold:</b>	Not specified
<b>pH:</b>	Not specified
<b>Melting/freezing point:</b>	Not specified
<b>Initial boiling point and range:</b>	120°C
<b>Flash point:</b>	35°C
<b>Evaporation rate:</b>	Not specified
<b>Flammability (solid, gas):</b>	Not specified
<b>Upper/lower flammability or explosive limits:</b>	Not specified
<b>Vapour pressure:</b>	12 hPa
<b>Vapour density:</b>	Not specified
<b>Relative density:</b>	Not specified
<b>Solubility(ies):</b>	Fully miscible with water
<b>Partition coefficient: n-octanol/water</b>	Not specified
<b>Auto ignition temperature:</b>	Product is not self-igniting
<b>Decomposition temperature:</b>	Not specified
<b>Viscosity:</b>	Not specified
<b>Explosive properties:</b>	Product is not explosive; however formation of explosive air/vapour mixtures are possible

**Oxidising properties:** Not specified

## 9.2 Other Information

VOC (g/L) 1000

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** No data available

**10.2 Chemical stability:** The mixture is stable under the recommended handling and storage conditions in section 7.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges
- heating
- heat
- flames and hot surfaces

**10.5 Incompatible materials:** None specified

**10.6 Hazardous decomposition products:** Thermal decomposition may release/form:  
- carbon monoxide (CO)

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

##### Acute toxicity:

111-76-2 2-butoxyethanol

Oral route: LD50 1480 mg/kg

Species: Rat

OECD guideline 401 (Acute Oral Toxicity)

Dermal route: LD50>400 mg/kg

Species: Rabbit

OECD guideline 402 (Acute Dermal Toxicity)

Inhalation route:

**Skin corrosion/irritation:** Causes skin irritation and mucous membranes

**Serious eye damage/irritation:** Splashes in the eyes may cause.

##### Skin sensitisation:

No data

##### Respiratory sensitisation:

No data

##### Germ cell mutagenicity:

No data

##### Carcinogenicity:

No data

##### Reproductive toxicity:

No data

**STOT – single exposure:** May cause drowsiness or dizziness.

##### STOT – repeated exposure:

No data

##### Aspiration hazard:

No data

#### 11.1.2 Mixture

##### Irritation:

No data

##### Corrosivity:

No data

##### Sensitisation:

No data

##### Repeated dose toxicity:

No data

##### Carcinogenicity:

No data

**Mutagenicity:** No data  
**Toxicity for reproduction:** No data

#### Information on likely routes of exposure

**Inhalation:** Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucus membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.  
Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and in extreme cases loss of consciousness.  
Narcotic effects may occur such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of co-ordination or dizziness.  
Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

**Skin contact:** Causes skin irritation.

**Eye contact:** Splashes in the eyes may cause irritation.

**Ingestion** Ingestion may result in adverse health effects such as mucus membrane and respiratory system irritation.

**Symptoms related to the physical, chemical and toxicological characteristics:** Skin contact causes irritation. Eye contact may cause irritation and irreversible damage. Inhalation may result in adverse health effects such as mucus membrane. If swallowed may result in adverse health effects such as mucus membrane and respiratory system.

**Mixture versus substance information:** No data

**Other information:** None

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### 12.1.1 Substances

Substances classified as category 1 acute toxicity:

No data

Fish toxicity:

Algae toxicity:

#### 12.1.2 Mixtures

No aquatic toxicity data available for the mixture

**Persistence and degradability:** No data

**Bioaccumulative potential:** No data

**Mobility in soil:** No data

**Results of PBT and vPvB:** No data

**Other adverse effects:** No data

## 13. DISPOSAL CONSIDERATION

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC

### 13.1 Waste treatment methods

Do not pour into drains or waterways

#### Waste:

Waste management is carried out without endangering human health, without harming the environment and in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging:

Empty soiled container completely. Keep label(s) on the container.

Give to a certified contractor.

**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):**

10 06 03 \* other solvents and solvent mixtures

#### 14. TRANSPORT INFORMATION

##### IATA/ICAO

- |      |                                      |  |
|------|--------------------------------------|--|
| 14.1 | <b>UN Number:</b>                    | 3175   |
| 14.2 | <b>UN Proper shipping name:</b>      | 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.              |
| 14.3 | <b>Class:</b>                        | 4.1 Flammable solid  |
| 14.4 | <b>Packing Group:</b>                | II   |
| 14.5 | <b>Environmental hazards:</b>        | Yes  |
| 14.6 | <b>Special precautions for user:</b> | Read supplier SDS instructions on correct use of the product |



Red Striped-coloured Diamond

##### ADR

- |      |                                      |  |
|------|--------------------------------------|--|
| 14.1 | <b>UN Number:</b>                    | 3175   |
| 14.2 | <b>UN Proper shipping name:</b>      | 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.              |
| 14.3 | <b>Class:</b>                        | 4.1 Flammable solid  |
| 14.4 | <b>Packing Group:</b>                | II   |
| 14.5 | <b>Environmental hazards:</b>        | Yes  |
| 14.6 | <b>Special precautions for user:</b> | Read supplier SDS instructions on correct use of the product |



Red Striped-coloured Diamond

**ADN**

- 14.1 **UN Number:** 3175
- 14.2 **UN Proper shipping name:** 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
- 14.3 **Class:** 4.1 Flammable solid
- 14.4 **Packing Group:** II
- 14.5 **Environmental hazards:** Yes
- 14.6 **Special precautions for user:** Read supplier SDS instructions on correct use of the product



Red Striped-coloured Diamond

**RID**

- 14.1 **UN Number:** 3175
- 14.2 **UN Proper shipping name:** 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
- 14.3 **Class:** 4.1 Flammable solid
- 14.4 **Packing Group:** II
- 14.5 **Environmental hazards:** Yes
- 14.6 **Special precautions for user:** Read supplier SDS instructions on correct use of the product



Red Striped-coloured Diamond

**IMDG**

- 14.1 **UN Number:** 3175
- 14.2 **UN Proper shipping name:** 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
- 14.3 **Class:** 4.1 Flammable solid
- 14.4 **Packing Group:** II
- 14.5 **Environmental hazards:** Marine pollutant
- 14.6 **Special precautions for user:** Read supplier SDS instructions on correct use of the product



Red Striped-coloured Diamond

## 15. REGULATORY INFORMATION

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

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

## 16. Other Information

### Full text of relevant R-phrases and/or H-statements:

H226:	Flammable liquid and vapour.
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315:	Causes skin irritation.
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness

**Supplemental Hazard information (EU):** Not applicable

### Risk phrase(s):

R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin
R67	R67: Vapours may cause drowsiness and dizziness.

### Disclaimer:

This safety data sheet contains important information to ensure the safe storage, handling and use of this product, it does not however constitute an assessment of workplace risks.

Users are advised to refer to relevant legislation, approved codes of practice and guidance available from the Health & Safety Executive (website: <http://www.hse.gov.uk>).

### Further information:

The above information is based on our current knowledge of the product. The purpose of this data sheet is to describe the product in terms of its safety and environmental requirements. It is the user's responsibility to satisfy themselves as to the application of this information and/or recommendations for their own use.