

# WAX EMULSIFIER

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : WAX EMULSIFIER  
Product code : P514

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

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

CleanPak Products LLC.  
221 Hobbs Street Suite 108  
Tampa, FL 33619  
T 813-740-8611 - F 813-740-8218  
[admin@cleanpakproducts.com](mailto:admin@cleanpakproducts.com) - [www.cleanpakproducts.com](http://www.cleanpakproducts.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-535-5053  
InfoTrac

### SECTION 2: Hazards identification

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

##### GHS-US classification

Flam. Liq. 4 H227  
Skin Corr. 1A H314

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Precautionary statements (GHS-US) :

P260 - Do not breathe mist, spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear gloves and protective eyewear  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use dry extinguishing powder, foam to extinguish  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name                | Product identifier | %      | GHS-US classification                                                                                                                                                  |
|---------------------|--------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potassium Hydroxide | (CAS No) 1310-58-3 | 5 - 10 | Skin Corr. 1A, H314                                                                                                                                                    |
| 2-butoxyethanol     | (CAS No) 111-76-2  | 1 - 5  | Flam. Liq. 4, H227<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:vapour), H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319 |
| disodium disulphite | (CAS No) 7681-57-4 | 1 - 5  | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 3, H402                                                                                                                     |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow victim to breathe fresh air.  
First-aid measures after skin contact : Rinse with water.  
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open.  
First-aid measures after ingestion : Drink plenty of water.

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

No additional information available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : EXTINGUISHING MEDIA FOR SURROUNDING FIRES:

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

No additional information available

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

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

For containment : Plug the leak, cut off the supply.  
Methods for cleaning up : Liquid spill: neutralize.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Incompatible products : Oxidizing agent. Strong acids.  
Maximum storage period : > 2 year  
Storage area : Keep only in the original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| WAX EMULSIFIER                                                     |                   |         |
|--------------------------------------------------------------------|-------------------|---------|
| ACGIH                                                              | Not applicable    |         |
| OSHA                                                               | Not applicable    |         |
| Potassium Hydroxide, conc=45%, aqueous solution (CAS No) 1310-58-3 |                   |         |
| ACGIH                                                              | Not applicable    |         |
| OSHA                                                               | Not applicable    |         |
| 2-butoxyethanol (111-76-2)                                         |                   |         |
| ACGIH                                                              | ACGIH TWA (ppm)   | 20 ppm  |
| ACGIH                                                              | ACGIH STEL (ppm)  | 20 ppm  |
| OSHA                                                               | Not applicable    |         |
| disodium disulphite (7681-57-4)                                    |                   |         |
| ACGIH                                                              | ACGIH TWA (mg/m³) | 5 mg/m³ |
| OSHA                                                               | Not applicable    |         |

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Colour : Mixture contains one or more component(s) which have the following colour(s):  
Colourless, Colourless to light yellow, Colourless or white  
Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.  
Mixture contains one or more component(s) which have the following odour(s):  
Odourless, Pleasant odour, Sweet odour, Mild odour, Irritating/pungent odour, Unpleasant odour  
Odour threshold : No data available  
pH : ≈ 12.5  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Specific gravity : ≈ 1.04  
Solubility : Water: Solubility in water of component(s) of the mixture :  
• sodium hydroxide, conc=50%, aqueous solution: Complete • 2-butoxyethanol: Complete • disodium disulphite: 54 g/100ml • edetic acid: 0.05 g/100ml  
Log Pow : No data available  
Log Kow : No data available

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|                      |                     |
|----------------------|---------------------|
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic   | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits     | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| 2-butoxyethanol (111-76-2)        |                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                     | 530 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 1746 mg/kg bodyweight; Rat; Experimental value)                                                    |
| LD50 dermal rat                   | > 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)                                                                                      |
| LD50 dermal rabbit                | 435 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402) |
| LC50 inhalation rat (mg/l)        | 2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)                                                                                           |
| LC50 inhalation rat (ppm)         | 450-486, Rat; Weight of evidence                                                                                                                                        |
| ATE US (oral)                     | 530.000 mg/kg bodyweight                                                                                                                                                |
| ATE US (dermal)                   | 435.000 mg/kg bodyweight                                                                                                                                                |
| ATE US (vapours)                  | 2.170 mg/l/4h                                                                                                                                                           |
| ATE US (dust,mist)                | 2.170 mg/l/4h                                                                                                                                                           |
| disodium disulphite (7681-57-4)   |                                                                                                                                                                         |
| LD50 oral rat                     | 1540 mg/kg (Rat)                                                                                                                                                        |
| LD50 dermal rat                   | > 2000 mg/kg (Rat)                                                                                                                                                      |
| ATE US (oral)                     | 1540.000 mg/kg bodyweight                                                                                                                                               |
| Skin corrosion/irritation         | : Causes severe skin burns and eye damage.<br>pH: ≈ 12.5                                                                                                                |
| Serious eye damage/irritation     | : Not classified<br>pH: ≈ 12.5                                                                                                                                          |
| Respiratory or skin sensitisation | : Not classified                                                                                                                                                        |
| Germ cell mutagenicity            | : Not classified                                                                                                                                                        |
| Carcinogenicity                   | : Not classified                                                                                                                                                        |
| 2-butoxyethanol (111-76-2)        |                                                                                                                                                                         |
| IARC group                        | 3 - Not classifiable                                                                                                                                                    |
| disodium disulphite (7681-57-4)   |                                                                                                                                                                         |
| IARC group                        | 3 - Not classifiable                                                                                                                                                    |

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### 2-butoxyethanol (111-76-2)

|                                                    |                  |
|----------------------------------------------------|------------------|
| Reproductive toxicity                              | : Not classified |
| Specific target organ toxicity (single exposure)   | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard                                  | : Not classified |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### 2-butoxyethanol (111-76-2)

|                               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| LC50 fishes 1                 | 116 ppm (96 h; Cyprinodon variegatus; Nominal concentration) |
| EC50 Daphnia 1                | 1700 mg/l (48 h; Daphnia sp.; Nominal concentration)         |
| LC50 fish 2                   | 1341 ppm (96 h; Lepomis macrochirus)                         |
| EC50 Daphnia 2                | 1720 mg/l (24 h; Daphnia magna)                              |
| TLM fish 1                    | 100 - 1000,96 h; Pisces                                      |
| TLM other aquatic organisms 1 | 100 - 1000,96 h                                              |
| Threshold limit algae 1       | 900 mg/l (168 h; Scenedesmus quadricauda)                    |
| Threshold limit algae 2       | 35 mg/l (192 h; Microcystis aeruginosa)                      |

#### disodium disulphite (7681-57-4)

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| LC50 fishes 1           | 32 mg/l (96 h; Lepomis macrochirus)                        |
| EC50 Daphnia 1          | 89 mg/l (24 h; Daphnia magna)                              |
| LC50 fish 2             | 150 - 220 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| Threshold limit algae 1 | 48 mg/l (72 h; Scenedesmus subspicatus; Inhibitory)        |

### 12.2. Persistence and degradability

#### Potassium Hydroxide, conc=45%, aqueous solution (CAS No) 1310-58-3

|                               |                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------|
| Persistence and degradability | Biodegradability: not applicable. No (test)data on mobility of the components available. |
|-------------------------------|------------------------------------------------------------------------------------------|

#### 2-butoxyethanol (111-76-2)

|                                 |                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------|
| Persistence and degradability   | Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 0.71 g O <sub>2</sub> /g substance                                                      |
| Chemical oxygen demand (COD)    | 2.20 g O <sub>2</sub> /g substance                                                      |
| ThOD                            | 2.305 g O <sub>2</sub> /g substance                                                     |
| BOD (% of ThOD)                 | 0.31 % ThOD                                                                             |

#### disodium disulphite (7681-57-4)

|                              |                                     |
|------------------------------|-------------------------------------|
| Chemical oxygen demand (COD) | 0.154 g O <sub>2</sub> /g substance |
|------------------------------|-------------------------------------|

### 12.3. Bioaccumulative potential

#### Potassium Hydroxide, conc=45%, aqueous solution (CAS No) 1310-58-3

|                           |                                                |
|---------------------------|------------------------------------------------|
| Bioaccumulative potential | Does not contain bioaccumulative component(s). |
|---------------------------|------------------------------------------------|

#### 2-butoxyethanol (111-76-2)

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Log Pow                   | 0.81 (Experimental value; BASF test; 25 °C)      |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

#### disodium disulphite (7681-57-4)

|                           |                                  |
|---------------------------|----------------------------------|
| Log Pow                   | -3.7                             |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

### 12.4. Mobility in soil

#### 2-butoxyethanol (111-76-2)

|                 |                   |
|-----------------|-------------------|
| Surface tension | 0.027 N/m (25 °C) |
|-----------------|-------------------|

### 12.5. Other adverse effects

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Effect on ozone layer        | :                                                    |
| Effect on the global warming | : No known ecological damage caused by this product. |

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : May be discharged to wastewater treatment installation.

### SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1824 Sodium hydroxide solution, 8, III  
UN-No.(DOT) : UN1824  
Proper Shipping Name (DOT) : Sodium hydroxide solution  
Department of Transportation (DOT) Hazard Classes : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : III - Minor Danger  
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).  
N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.  
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203  
DOT Packaging Bulk (49 CFR 173.xxx) : 241  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
DOT Vessel Stowage Other : 52 - Stow "separated from" acids

#### Additional information

Other information : No supplementary information available.

#### ADR

No additional information available

#### Transport by sea

UN-No. (IMDG) : 1824  
Proper Shipping Name (IMDG) : SODIUM HYDROXIDE SOLUTION  
Class (IMDG) : 8 - Corrosive substances  
Packing group (IMDG) : III - substances presenting low danger

#### Air transport

UN-No.(IATA) : 1824  
Proper Shipping Name (IATA) : SODIUM HYDROXIDE SOLUTION  
Class (IATA) : 8 - Corrosives  
Packing group (IATA) : III - Minor Danger

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### 2-butoxyethanol (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

#### EU-Regulations

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

##### 15.2.2. National regulations

No additional information available

#### 15.3. US State regulations

##### 2-butoxyethanol (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Full text of H-phrases:

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| Acute Tox. 3 (Dermal)            | Acute toxicity (dermal), Category 3                             |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3                   |
| Acute Tox. 4 (Oral)              | Acute toxicity (oral), Category 4                               |
| Aquatic Acute 3                  | Hazardous to the aquatic environment — Acute Hazard, Category 3 |
| Eye Irrit. 2A                    | Serious eye damage/eye irritation, Category 2A                  |
| Flam. Liq. 4                     | Flammable liquids, Category 4                                   |
| Skin Corr. 1A                    | Skin corrosion/irritation, Category 1A                          |
| Skin Irrit. 2                    | Skin corrosion/irritation, Category 2                           |
| H227                             | Combustible liquid                                              |
| H302                             | Harmful if swallowed                                            |
| H311                             | Toxic in contact with skin                                      |
| H314                             | Causes severe skin burns and eye damage                         |
| H315                             | Causes skin irritation                                          |
| H319                             | Causes serious eye irritation                                   |
| H331                             | Toxic if inhaled                                                |
| H402                             | Harmful to aquatic life                                         |

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 0 Minimal Hazard  
Physical : 0 Minimal Hazard  
Personal Protection : B

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*