

## PRODUCT NAME: ENVIRO MOP & BUFF

### I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	: Enviro Mop & Buff Floor Maintainer	Product Number: EC-MOP-2
<b>PRODUCT USE</b>	: Water based floor coating maintainer	

<b>MANUFACTURER</b>	: Enviro Chemicals (Aust.) Pty. Ltd.	
<b>A.C.N.</b>	: 094087493	
<b>ADDRESS</b>	: 740-744 Woodville Rd. Fairfield East NSW 2165 Australia	
<b>EMERGENCY PHONE</b>	: (02) 9755 2012 ( <b>Business hour</b> ) or <b>Poisons Information centre</b> : 13 11 26	

### 2. HAZARDS IDENTIFICATION

**Physical/chemical hazards:** No physical or chemical hazards have been reported or are known.  
**Human health hazards:** This product is not dangerous according to the EU regulations (67/548/EEC-1999/45/EC).  
**Environmental hazards:** On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects when used as directed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation:** Preparation

#### INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R-phrases *
Diethylene glycol monoethyl ether	203-919-7	5-10	111-90-0	Xi (irritant)	R36
Diethylene Glycol Methyl Ether	203-906-6	1-6	111-77-3	Xn (Harmful)	R63
Dibutyl Phthalate	201-557-4	1-3	84-74-2	T (Toxic) N (Dangerous to the Environment)	R50, R61, R62

\* see section 16 for the full text of relevant R-phrases

### 4. FIRST AID MEASURES

#### EFFECTS AND SYMPTOMS

**Inhalation:** None known  
**Ingestion:** None known  
**Skin contact:** May be mildly irritating  
**Eye contact:** May be mildly irritating

#### FIRST AID MEASURES

**Inhalation:** No specific measures required  
**Ingestion:** No specific measures required  
**Skin contact:** Immediately wash off with plenty of water. If irritation develops, get medical attention.  
**Eye contact:** Immediately wash out with water. If irritation develops, get medical attention.

## PRODUCT NAME: ENVIRO MOP & BUFF

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Dry chemical, water spray, foam, carbon dioxide

**Hazardous combustion products:** None

**Unusual fire and explosion hazards:** Materials can splatter above 100°C/212°F.

**Special fire fighting procedures:** None

### 6. ACCIDENTAL RELEASE MEASURES

**Small spills:** Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.

**Large spills:** Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes.

**Storage:** Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure limit values :**

Component Name:	Source / Date	Value / Units	Type	Carcinogenic Listing*
Dibutyl Phthalate	US (ACGIH) / 2005	5 mg/m <sup>3</sup>	8 HRS / TWA	N/L
Dibutyl Phthalate	US (OSHA) / 2005	5 mg/m <sup>3</sup>	8 HRS / PEL TWA	

**Exposure controls:** No special ventilation requirements. Ensure adequate general ventilation.

#### OCCUPATIONAL EXPOSURE CONTROLS

**Respiratory protection:** No specific personal protection is required.

**Hand protection:** Rubber gloves recommended

**Eye protection:** Safety glasses recommended

**Skin protection:** If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

**Environmental exposure controls:** No specific environmental exposure controls required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### GENERAL INFORMATION

**Appearance:** Thin milky white opaque liquid

**Odor:** Slight ammonia

#### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**pH:** 8.35 to 8.85

**Boiling point/boiling range:** 100°C

**Flash point:** None

**Explosive properties:** None

**Oxidizing properties:** Not an oxidizer

**Vapor pressure:** Less than water

## PRODUCT NAME: ENVIRO MOP & BUFF

**Relative density:** 1.04 kg/l @ 20°C  
**Solubility:** 100% soluble (dispersible) in water  
**Partition coefficient (n-octanol/water):** Not determined  
**Other information:** forms a clear film upon drying

**Viscosity:** Less than 30 centipoise @ 20°C  
**Vapor density:** Greater than air  
**Evaporation rate:** Less than water

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** None known  
**Materials to avoid:** None known  
**Hazardous decomposition products:** None known

### 11. TOXICOLOGICAL INFORMATION

#### COMPONENT SUMMARY

##### Diethylene Glycol Ethyl Ether

LD<sub>50</sub>: (Oral) rat 5.5 g/kg

LD<sub>50</sub>: (Skin) rabbit 9.0 g/kg

#### Potential Health Effects

**Eye:** May cause irritation to eyes. Symptoms include stinging, tearing, redness and swelling of eyes.

**Skin:** Mild skin irritation. May cause redness and burning of skin.

**Ingestion:** Small amount swallowed not likely to cause injury. Larger amounts may cause injury similar to inhalation health effects. Also see below acute oral effects below.

**Inhalation:** Breathing small amounts not harmful but large amounts may be harmful. May cause dizziness or drowsiness, central nervous system depression, nausea, headache, confusion or unconsciousness.

**Chronic:** May cause liver or kidney damage.

#### ACUTE ORAL EFFECTS:

Rat toxicity data (5.0 g/kg/day) indicates oxalate crystals in urine, degeneration of the liver and renal tubules, and transient dermatitis.

#### Repeated Dose Toxicity:

In a two year drinking water study with rats and mice no adverse effects were observed at 1% and 5%, respectively.

**CARCINOGENICITY:** Not expected to occur.

##### Diethylene Glycol Methyl Ether

LD<sub>50</sub>: (Oral) rat 7.1 g/kg,

LD<sub>50</sub>: (Skin) rabbit 9.4 g/kg

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause irritation to mouth, nose and throat.

**Inhalation:** Irritating to respiratory system.

**Chronic:** Possible risk to unborn child.

**CARCINOGENICITY:** Not expected to occur.

##### Dibutyl Phthalate

LD<sub>50</sub>: (Oral) rat 20 g/kg

#### Potential Health Effects

**Eye:** May cause eye irritation, splashes cause severe irritation with stinging pain and tears.

**Skin:** May cause skin irritation and possibly burns.

## PRODUCT NAME: ENVIRO MOP & BUFF

**Ingestion:** Irritation to gastrointestinal tract such as nausea, vomiting and diarrhea.

**Inhalation:** May cause irritation to respiratory tract.

**Chronic:** May cause central nervous system toxicity. Possible risk of harm to the unborn child and possible risk of impaired fertility.

**CARCINOGENICITY:** Not expected to occur.

### PREPARATION SUMMARY

**Acute Toxicity:** LD<sub>50</sub> estimated to be greater than 2000 mg/kg

### LOCAL EFFECTS

**Skin contact:** Irritating to skin upon repeated or prolonged contact.

**Eye Contact:** Slightly irritating

**Sensitization:** None known

**Chronic effects:** None known

### SPECIFIC EFFECTS

**Carcinogenicity:** None known

**Reproductive effects:** None known

**Teratogenicity:** None known

**Mutagenicity:** None known

## 12. ECOLOGICAL INFORMATION

### COMPONENT SUMMARY

Diethylene Glycol Methyl Ether: not available

Dibutyl Phthalate

96 hr LC-50 (fathead minnow): 0.92 mg/l NOEC: 0.32 mg/l

96 hr LC-50 (bluegill sunfish): 0.48 mg/l NOEC: 0.42 mg/l

Diethylene Glycol Monoethyl Ether

Fathead Minnow; 96 hr; LC50 > 10000 mg/l

### Preparation Summary

**Ecotoxicity:** This material is highly soluble in water. Limited toxicity tests and models indicate this material should exhibit low toxicity to aquatic organisms.

**Environmental fate:** This material will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.

**Bioaccumulation:** Because of this material's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil. On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects, when used as directed.

## 13. DISPOSAL

Disposal of this material should be in accordance with local, regional, and national regulations.

## 14. TRANSPORT INFORMATION

## PRODUCT NAME: ENVIRO MOP & BUFF

### INTERNATIONAL TRANSPORTATION REGULATIONS:

This product is not classified for transportation under ADR/IMDG regulations.

**UN number:** not applicable

**Packing group:** not applicable

#### LAND-ROAD/RAILWAY

**Proper shipping name:** not applicable

**ADR/RID class:** not applicable

**ADR/RID item number:** not applicable

#### SEA

**Proper shipping name:** not applicable

**IMDG class:** not applicable

#### AIR

**Proper shipping name:** not applicable

**ICAO class:** not applicable

**Medical First Aid Guide (MFAG):** not applicable

**Emergency Schedules (EmS):** not applicable

**Marine Pollutant:** none

## 15. REGULATORY INFORMATION

**NATIONAL REGULATIONS:** No additional national regulations are known to the supplier.

### EU REGULATIONS

**EU Classification:** Classified as non-hazardous according to current legislation (67/548/EEC, 1999/45/EC).

**EINECS Status:** All ingredients are included in the EINECS inventories.

**CANADA CPR Status:** This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

## 16. OTHER INFORMATION

### Relevant R-phrases

R36-Irritating to eyes.

R50-Very toxic to aquatic life.

R61-May cause harm to the unborn child.

R62-Possible risk of impaired fertility.

R63-Possible risk of harm to the unborn child.

### Key to Abbreviations & Acronyms Used in MSDS:

<            **Less Than**

>            **Greater Than**

AICS        **Australian Inventory of Chemical Substances**

CAS         **Chemical Abstracts Service (Registry Number)**

LC50        **LC stands for lethal Concentration.**

**LC50** is the concentration of a material in air which causes death of 50% (one half ) of a group of test animals.

**LD50** LD stands for "Lethal Dose".

**LD50** is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

**NOHSC** National Occupational Health and Safety Commission.

**OECD** Organisation for Economic Co-operation and Development.

**PEL** Permissible Exposure Limit.

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value TWA Time

**Weighted Average**

**UN** United Nations (Number)

**deg C (°C)** Degrees Celsius

**g** Gram

**g/cm<sup>3</sup>** Grams per cubic centimetre

**g/l** Grams per litre

**Immiscible** Liquids are insoluble in each other

**kg** Kilogram

**kg/m<sup>3</sup>** Kilograms per cubic metre

**ltr** Litre

**m<sup>3</sup>** Cubic metre

**mg** Milligram

**mg/24H** Milligrams per 24 hours

**mg/kg** Milligrams per kilogram

**mg/m<sup>3</sup>** Milligrams per cubic metre

**miscible** Liquids form one homogeneous liquid

**ppm** Parts per million

**wt** Weight

**Literature References:** Supplies MSDS

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**END OF MSDS**