

# MATERIAL SAFETY DATA SHEET

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

### 1.1 Product identifier

Trade name: Ecomet Top Black – SB

### 1.2 Details of the supplier of the Material safety data sheet

Manufacturer/ Supplier: Effco finishes and technologies pvt Ltd  
Thirumal Ind estate, Hinjewadei,  
Phase II, Pune -411057  
Tel.: +91 9967060596  
E-mail: [warat@effcoindia.com](mailto:warat@effcoindia.com)  
[kunal@effcoindia.com](mailto:kunal@effcoindia.com)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment


Aquatic Acute 1 H400 Very toxic to aquatic life  
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.




GHS07

Skin Irrit. 2 H315 Causes skin irritation.

### 2.2 Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 Xi; Irritant

R41: Risk of serious damage to eyes.

 N; Dangerous for the environment

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

R10-67: Flammable. Vapours may cause drowsiness and dizziness.

# MATERIAL SAFETY DATA SHEET

## Hazard statements

- H226 Flammable liquid and vapor. H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H410 Very toxic to aquatic life with long-lasting effects.

## Precautionary statements

- P210: Keep away from heat/sparks/open flames/hot surfaces, no smoking.
- P303+P361+P353 If on skin (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338: If in eyes- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a doctor.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

· Description: Mixture consisting of the following components with harmless additives.

· Dangerous components:

|                |                                     |            |
|----------------|-------------------------------------|------------|
| CAS: 7440-66-6 | zinc powder -zinc dust (stabilized) | 10.0 - 15% |
|                | ☉                                   |            |
|                |                                     |            |
|                |                                     |            |
| CAS: 1333-86-4 | Carbon black                        | 1.0- 2.0%  |
|                | ☉                                   |            |

# MATERIAL SAFETY DATA SHEET

|                |                                |           |
|----------------|--------------------------------|-----------|
| CAS: 1330-20-7 | Solvent Xylene                 | 20 - 25 % |
| CAS : 108-65-6 | Solvent Methoxy Propyl Acetate | 5 – 10 %  |
| CAS : 71-36-3  | Butan-1-ol                     | 5 – 10 %  |
| CAS : 50-00-0  | Formaldehyde                   | 10 – 15 % |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

- Personal protection for the first aider.
- Do not leave affected people unsupervised.
- Take affected persons out of danger area and instruct them to lie down.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact: Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water, then consult a doctor. Protect unharmed eyes.
- After swallowing Rinse out your mouth and then drink plenty of water.

# MATERIAL SAFETY DATA SHEET

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing agents Alcohol-resistant foam
- For safety reasons unsuitable extinguishing agents, water with a full water jet.

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

- Can be released in case of fire, nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO)

### 5.3 Advice for firefighters

- Protective equipment: Do not inhale explosion gases or combustion gases.

## SECTION 6: Accidental release measures

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

- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation
- Keep away from ignition sources
- Wear protective clothing.

### 6.2 Environmental precautions:

- Do not allow product to reach sewage system or water bodies.
- Inform respective authorities in case product reaches water or sewage system.

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

- Absorb with liquid-binding material (sand, diatomite, sawdust).
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Keep containers tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

**Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

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

- Storage
- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class

# MATERIAL SAFETY DATA SHEET

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

|  |  |
|--|--|
| <i>· Components with critical values that require monitoring at the workplace:</i> |  |
| <b>1333-86-4 Carbon Black</b>  |  |
| TLV<br>TWA   | Long-term exposure – 8 hrs<br>3.5 mg/ m <sup>3</sup>                                 |
| <b>7440-66-6 zinc powder -zinc dust (stabilized)</b>                               |  |
| TWA<br>(Inhalable)   | 10.0 mg/ m <sup>3</sup><br>5.0 mg/m <sup>3</sup> (long term Systematic) <sup>4</sup> |
| TWA<br>(Respirable)  | mg/m <sup>3</sup>  |
| <b>1330-20-7 Solvent Xylene</b>  |  |
| TWA  | 100 ppm (435 mg/ m <sup>3</sup> )  |
| <b>108-65-6 Solvent Methoxy Propyl Acetate</b>                                     |  |
| TWA  | 100ppm (550 mg/ m <sup>3</sup> )   |
| <b>71-36-3 Solvent Butan-1-ol</b>  |  |
| TWA  | 152 mg/ m <sup>3</sup>   |
| <b>50-00-0 Formaldehyde</b>  |  |
| TWA  | 0.37 mg/ m <sup>3</sup>  |

# MATERIAL SAFETY DATA SHEET

· **Additional information:** *The lists that were valid during the compilation were used as basis.*

## 8.2 Exposure controls

### **Personal protective equipment**

#### **General protective and hygienic measures**

- *The usual precautionary measures should be adhered to in handling the chemicals. Instantly remove any soiled and impregnated garments.*
- *Wash hands during breaks and at the end of the work. Avoid contact with the eyes.*

#### **Breathing equipment:**



*Only during spraying without adequate removal by suction.*

#### **Protection of hands:**



*Protective gloves.*

- *The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*
- *Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*
- *Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- *To avoid skin problems, reduce the wearing of gloves to the required minimum. Avoid direct contact with the chemical/ the product.*

#### **Material of gloves**

*The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

*Butyl rubber, BR*

*Fluorocarbon rubber (Viton)*

# MATERIAL SAFETY DATA SHEET

(Contd. of page 6)

## SECTION 9: Physical and chemical properties

### 9.1 Information on physical and chemical properties

#### Appearance

|               |                     |
|---------------|---------------------|
| <b>Form:</b>  | <i>Fluid</i>        |
| <b>Color:</b> | <i>Black</i>        |
| <b>Smell:</b> | <i>Solvent like</i> |

· **PH-value:** *Not applicable*

#### · **Change in condition**

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Melting point/Melting range:</b> | <i>Not determined</i> |
| <b>Boiling point/Boiling range:</b> | <i>110 °C</i>         |

· **Flash point:** *31 °C*

· **Inflammability (solid, gaseous)** *Not applicable.*

· **Ignition temperature:** *300 °C*

· **Decomposition temperature:** *Not determined*

· **Danger of explosion:** *The product is not explosive. However, formation of explosive steam/air mixtures is possible.*

#### · **Critical values for explosion:**

|               |                   |
|---------------|-------------------|
| <b>Lower:</b> | <i>0.5 Vol %</i>  |
| <b>Upper:</b> | <i>30.0 Vol %</i> |

|                           |                              |
|---------------------------|------------------------------|
| · <b>Density at 20 °C</b> | <i>1.1 gm/cm<sup>3</sup></i> |
| · <b>Relative density</b> | <i>Not determined.</i>       |
| · <b>Vapour density</b>   | <i>Not determined</i>        |
| · <b>Evaporation rate</b> | <i>Not determined.</i>       |

· **Solubility in / Miscibility with Water:** *Not miscible*

# MATERIAL SAFETY DATA SHEET

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

· **Conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** None

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### 7440-66-6 zinc powder -zinc dust (stabilized)

|            |          |                        |
|------------|----------|------------------------|
| Oral       | LD50     | >2000 mg/kg (Muroidea) |
| Inhalative | LC50/4 h | 5.41 mg/L (Muroidea)   |

#### 1330-20-7 Solvent Xylene

|        |      |             |
|--------|------|-------------|
| Oral   | LD50 | >4000 mg/kg |
| Dermal | LD50 | >2000 mg/kg |

#### 108-65-6 Solvent Methoxy Propyl Acetate

|        |      |             |
|--------|------|-------------|
| Oral   | LD50 | >5000 mg/kg |
| Dermal | LD50 | >2000 mg/kg |

#### 71-36-3 Solvent Butan-1-ol

|        |      |             |
|--------|------|-------------|
| Oral   | LD50 | >700 mg/kg  |
| Dermal | LD50 | >2000 mg/kg |

#### TOXICOLOGICAL INFORMATION

No data is available for this preparation, which is classified according to the calculation method of EC Directives using information about the individual components.

**INHALATION** In high concentrations, vapors may irritate throat and respiratory system and cause coughing. Vapor may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

**INGESTION** Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

**SKIN CONTACT** Irritating to skin. Repeated exposure may cause skin dryness or cracking. Hydrolyses on contact with skin moisture forms solid polymeric titanium compounds which may be deposited on the surface.

**EYE CONTACT** Irritating and may cause redness and pain.



# MATERIAL SAFETY DATA SHEET

\*

## **SECTION 12: Ecological information**

### **ECOTOXICITY**

*The product is not expected to be hazardous to the environment.*

### **BIOACCUMULATION**

*Neither the product or its hydrolysis products are expected to bioaccumulate.*

### **DEGRADABILITY**

*The product is degraded completely by hydrolysis.*

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Recommendation**

- *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- *Hand over to disposers of hazardous waste.*
- *Disposal must be made according to official regulations.*

# MATERIAL SAFETY DATA SHEET

\*

## SECTION 14: Transport information

|  |  |
|--|--|
| <b>· 14.1 UN-Number</b>                  |  |
| · ADR, IMDG, IATA                        | UN1263   |
| <b>· 14.2 UN proper shipping name</b>    |  |
| · ADR                                    | <i>PAINT, ENVIRONMENTALLY HAZARDOUS</i>  |
| · IMDG                                   | <i>PAINT (zinc powder -zinc dust (stabilized), Solvent Naphtha), MARINE POLLUTANT</i>  |
| · IATA                                   | <i>PAINT</i>   |
| <b>· 14.3 Transport hazard class(es)</b> |  |
| · ADR                                    |  |
| · Class                                  | 3 (F1) Flammable liquids.  |
| · Label                                  | 3  |
| · IMDG                                   |  |
| · Class                                  | 3 Flammable liquids.   |
| · Label                                  | 3  |
| · IATA                                   |  |
| · Class                                  | 3 Flammable liquids.   |
| · Label                                  | 3  |
| <b>· 14.4 Packing group</b>              |  |
| · ADR, IMDG, IATA                        | III  |
| <b>· 14.5 Environmental hazards:</b>     | <i>Product contains environmentally hazardous substances:<br/>                 Product contains environmentally hazardous substances:<br/>                 zinc powder -zinc dust (stabilized)</i> |

## MATERIAL SAFETY DATA SHEET

|   |   |
|---|---|
| · <i>Special marking (ADR):</i>           | <i>Symbol (fish and tree)</i>                           |
| <i>14.6 Special precautions for user:</i> | <i>Flammable liquids.</i>                               |
| <i>UN "Model Regulation":</i>             | <i>UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3, III</i> |
| <i>Marine pollutant:</i>                  | <i>Yes</i>  |

# MATERIAL SAFETY DATA SHEET

## SECTION 15: Regulatory information

- **15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Decree to be applied in case of technical fault:**  
*Critical quantity values according to the regulations on accidents should be adhered to.*
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

|  |
|--|
| · <b>Substances of very high concern (SVHC) according to REACH, Article 57</b> |
|--|

|   |
|---|
| <i>None of the ingredients is listed.</i> |
|---|

|                           |
|---------------------------|
| · <b>REACH /Annex XIV</b> |
|---------------------------|

|   |
|---|
| <i>None of the ingredients is listed.</i> |
|---|

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

- H226 *Flammable liquid and vapour.*
- H228 *Flammable solid.*
- H260 *In contact with water releases flammable gases which may ignite spontaneously.*
- H304 *May be fatal if swallowed and enters airways.*
- H315 *Causes skin irritation.*
- H318 *Causes serious eye damage.*
- H319 *Causes serious eye irritation.*
- H332 *Harmful if inhaled.*
- H335 *May cause respiratory irritation.*
- H336 *May cause drowsiness or dizziness.*
- H400 *Very toxic to aquatic life.*
- H410 *Very toxic to aquatic life with long lasting effects.*
- H411 *Toxic to aquatic life with long lasting effects.*
- R10 *Flammable.*
- R15 *Contact with water liberates extremely flammable gases*
- R20 *Harmful by inhalation*
- R36/37 38 *Irritating to eyes, respiratory system*
- R41 *Risk of serious damage to eyes.*
- R50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R65 *Harmful: may cause lung damage if swallowed.*
- R66 *Repeated exposure may cause skin dryness or cracking.*
- R67 *Vapours may cause drowsiness and dizziness.*