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

· **1.1 Product identifier**

· **Trade name Ecoment Top Black - SB**

· **1.2 Details of the supplier of the Material safety data sheet**

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· **Manufacturer/Supplier:**

Effco finishes and technologies pvt ltd
Thirumal Ind estate, Hinjewadei, Phase II,
Pune -411057
Tel.: +91 9967060596

· **1.4 Emergency telephone number:**

phone: +91 9850784185/ +91 9967060596
email: warat@effcoindia.com
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.

· **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.

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· **Hazard statements**
H226 Flammable liquid and vapour.
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.

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SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: 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%

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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 persons unsupervised.
Take affected persons out of danger area and instruct 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.

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· ***After eye contact***
Rinse opened eye for several minutes under running water. Then consult doctor.
Protect unharmed eye.
· ***After swallowing*** *Rinse out mouth and then drink plenty of water.*
·

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 (NOx)
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.
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· ***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.
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· ***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.*

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· **Further information about storage conditions:** Keep container tightly sealed.
· **Storage class**
3

SECTION 8: Exposure controls/personal protection

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· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**		
1333-86-4 Carbon Black		
TLV TWA		Long-term exposure – 8 hrs 3.5 mg/ m³
7440-66-6 zinc powder -zinc dust (stabilized)		
TWA (Inhalable) TWA (Respirable)		10.0 mg/ m³ 5.0 mg/m³ (long term Systematic) 4 mg/m³
1330-20-7 Solvent Xylene		
TWA		100 ppm (435 mg/ m³)
108-65-6 Solvent Methoxy Propyl Acetate		
TWA		100ppm (550 mg/ m³)
71-36-3 Solvent Butan-1-ol		
TWA		152 mg/ m³
50-00-0 Formaldehyde		
TWA		0.37 mg/ m³

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

· **8.2 Exposure controls**

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· **Personal protective equipment**

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· **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.

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· **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.

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· **Material of gloves**
The selection of the 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)

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SECTION 9: Physical and chemical properties

· **9.1 Information on physical and chemical properties**	
·	
· **Appearance:**	
Form:	Fluid
Colour:	Black
· **Smell:**	Solvent like
·	
· **PH-value:**	Not applicable
· **Change in condition**	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	110 °C
· **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:**	
Lower:	0.5 Vol %
Upper:	30.0 Vol %
·	
· **Density at 20 °C**	1.1 gm/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible
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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

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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.*

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SECTION 12: Ecological information

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· ECOTOXICITY
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· The product is not expected to be hazardous to the environment.
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· BIOACCUMULATION
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· 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.

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· **Recommendation:** Disposal must be made according to official regulations.
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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	PAINT, ENVIRONMENTALLY HAZARDOUS
· **IMDG**	PAINT (zinc powder -zinc dust (stabilized), Solvent Naphtha), MARINE POLLUTANT
· **IATA**	PAINT
· **14.3 Transport hazard class(es)**	
· **ADR**	
· **Class**	3 (F1) Flammable liquids.
· **Label**	3
· **IMDG**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	III
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	Product contains environmentally hazardous substances: zinc powder -zinc dust (stabilized) Yes Symbol (fish and tree)

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· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
·	
· **UN "Model Regulation":** UN1263, PAINT, ENVIRONMENTALLY HAZARDOUS, 3, III	
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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**

· **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the ingredients is listed.
· **REACH /Annex XIV**
None of the ingredients is listed.

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SECTION 16: Other information

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.

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R15 Contact with water liberates extremely flammable gases. R20 Harmful by inhalation.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system.
R37/38 Irritating to respiratory system and skin. 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.