

# FLUSH MAX



## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

### Identification of substance / preparation:

Emarat's FLUSH MAX

### Application

General Purpose Industrial & Automotive Flushing Oil, blended with Base Oil 150 Neutral, Group 1 and Rust-preventive, Anti-oxidant type; not greater than %1 by weight.

### Company Identification

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### Chemical Composition

A blend of mineral base oil together with proprietary performance additives.

### Hazardous Components

No component is present at sufficient concentration to require a hazardous classification.

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## 3. HAZARDS IDENTIFICATION

May cause irritation to skin and eyes

The product should be handled in accordance with good industrial hygiene and safety practices. Used Engine oils may contain hazardous components which have the potential to cause skin cancer.

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## 4. FIRST-AID MEASURES

### Eyes

Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

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## Skin

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

## Ingestion

If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large quantities of the product is unlikely. If it occurs, do not induce vomiting but seek medical advice.

## Inhalation

If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person administer Oxygen through a face mask if breathing is difficult. If symptoms persist, obtain medical advice.

## Medical Advice

Treatment should be symptomatic and needs to be palliative. Aspiration of the product is unlikely to occur except as the result of ingestion, followed by omitting or regurgitation in a partially or totally unconscious individual, when immediate effects are most likely to result from the aspiration of acidic stomach contents. If it should occur, transport casualty immediately to hospital.

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## 5. FIRE-FIGHTING MEASURES

Use foam, dry chemical powder or CO<sub>2</sub>. Do not use water jets.

FIRES IN CONFINED SPACES SHOULD BE DEALT WITH BY TRAINED PERSONNEL WEARING APPROVED BREATHING APPARATUS.

Water may be used to cool nearby heat exposed areas / objects / packages. Avoid spraying directly into storage containers because of the danger of boil-over.

### Combustion Products

Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this Safety Data Sheet.

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## 6. ACCIDENTAL RELEASE MEASURES

Contain and recover spilled material using sand or other suitable inert absorbent material. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated. Spilled material may make surfaces slippery. Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.

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In the case of large spills contact the appropriate authorities.

In case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

## 7. HANDLING AND STORAGE

### Handling Precautions

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid prolonged or frequent skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact.

Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.

The use of a recommended barrier cream on the hands before commencing work may be helpful in assisting subsequent removal of any product accidentally contaminating the skin. After washing, the application of a suitable conditioning cream may help to prevent cracking, fissuring or dryness of the skin.

### Fire Prevention

Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

### Storage Conditions

Store under secure conditions. Keep out of reach of children.

Store under cover away from heat, moisture and sources of ignition

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

Ensure good ventilation.

Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use.

If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level. The occupational safety and health service of the department of labour recommend a workable exposure standard for an 8 -hour time-weighted average exposure (TWA) of 5 mg / m<sup>3</sup> for oil mist.

### Respiratory Protection

Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled.

The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.

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## Body Protection:

Wear face visor or goggles in circumstances where eye contact can accidentally occur. Change heavily contaminated clothing as soon as reasonably practicable and launder before re-use. Wash any contaminated underlying skin with soap and water. If skin contact is likely, wear impervious protective clothing and / or gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear & Bright		
Colour	Natural, ASTM <1.5		
Odour	Oily		
Density @ °20C	ASTM D 1298	Kg/L	0.87
Kinematic viscosity @ °100C	ASTM D 445	mm <sup>2</sup> /s	5
Kinematic viscosity @ °40C	ASTM D 445	mm <sup>2</sup> /s	32
Flash point (COC)	ASTM D 92	°C	210

## 10. STABILITY AND REACTIVITY

Hazardous polymerisation reactions will not occur.

### Conditions to Avoid

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use

This material is combustible

Avoid contact with strong oxidizing agents

### Hazardous Decomposition Products

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions

Incomplete combustion / thermal decomposition will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

### Eyes

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

### Skin

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use.

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Used engine oils may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must be avoided and a high standard of personal hygiene maintained

## **Ingestion**

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

## **Inhalation**

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility

Harmful by inhalation

May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs

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## **12. ECOLOGICAL INFORMATION**

### **Mobility**

Spillages may penetrate the soil causing ground water contamination.

### **Persistence and degradability**

This material is inherently biodegradable.

### **Bioaccumulative potential**

There is no evidence to suggest bioaccumulation will occur.

### **Aquatic toxicity**

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

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## **13. DISPOSAL CONSIDERATIONS**

### **Undiluted fluid**

Where possible, arrange for product to be recycled.

Dispose off via an authorised person / licensed waste disposal contractor in accordance with local regulations.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

Dispose off the product and container carefully and responsibly. Do not dispose off near ponds, ditches, down drains or on to soil.

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## 14. TRANSPORT INFORMATION

Not classified as a dangerous goods for transport. The product is combustible with flash point greater than 60.5 Deg.C.

## 15. REGULATORY INFORMATION

**UN Number:**

Not allocated.

**Hazchem Code:**

None allocated.

**Proper Shipping Name:**

None allocated.

**Packing Code:**

None allocated.

**DG Class:**

None allocated.

## 16 OTHER INFORMATION

**Compiled by:**

Emarat , PO Box 9400 , Dubai , UAE

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