



Material Safety Data Sheet

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Issued:	11 12 2003
Revised:	14 06 2008
Rev. No.:	5
Product:	PITCH GAS OIL

Ingestion	Severe burns, stomach ache and internal damage. Perforation of intestinal tract is possible. Nausea and vomiting will occur.	Do NOT induce vomiting. Wash victim's mouth thoroughly with water and give plenty water, milk or vegetable oil to drink if victim is conscious. Get medical help immediately.
Inhalation	Irritation of respiratory system. Vapour concentrations tend to be too low at room temperature to cause acute health effects. Acute poisoning may develop from combined exposure by inhalation, ingestion and skin absorption. Burns and general poisoning may result. Symptoms: - headache, stomach upset, depression, dizziness, mental confusion, irregular and rapid breathing, weak pulse, muscle weakness, blurred vision and ringing in the ears.	Remove to fresh air. Keep warm and combat shock. If breathing has stopped apply artificial respiration and get medical help.

5) FIRE FIGHTING MEASURES

Extinguishing Media
Water spray fog.
Dry alcohol foam.
Carbon Dioxide.

Special Hazards
Vapours are flammable and toxic.
Fire-fighters should wear full protective clothing and self-contained breathing apparatus.
Keep containers cool by spraying the outsides with water.
Flammable and toxic vapours can be given off during a fire.
Avoid using water jet.

Protective Clothing
Wear full protective clothing - vapours are flammable and toxic.

6) ACCIDENTAL RELEASE MEASURES

Personal Precautions - Wear gloves, safety glasses and full overalls.
Organic vapour canister unit with dust and mist filter.
For high (>2%) or unknown vapour concentrations, self-contained breathing apparatus should be worn.

7) HANDLING AND STORAGE

Suitable Material
Incompatible with Aluminium, Manganese, Lead and Zinc – these substances are readily attacked by hot product.
Causes Iron and Copper to discolour.
Stored in steel tanks. Avoid copper and bronze.
Storage rooms must be well ventilated, away from light, oxidizing products and ignition sources.
Electrical equipment must be earthed and insulated.
Containers must be closed properly and labelled.
Floor and off-loading areas should be designed to contain spills.
Workers should not enter a tank previously used for product unless it has been thoroughly rinsed with soapy water and is gas-free.



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Handling/Storage Precautions

Floor and off-loading area must be designed to contain product spills.
Do not enter a tank previously containing product unless it has been thoroughly rinsed with water, purged and finally rinsed with water.
It is important that the tank is odour free and that workers inside the tank are kept under observation by those out of the tank.
Area must be well ventilated.
Wear a face shield or safety goggles and long PVC, Polyethylene or Neoprene gloves.
Use PVC apron and chemical-resistant boots.
Wash hands frequently, particularly before meals.
Do not eat in work areas.
Showers, eye baths and abundant water supply must be available in work areas.

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupation Exposure Limits

TLV = 5 ppm

Personal Protection – Respiratory

<5 ppm – none required
5ppm – 2%- full face protection required. Use organic vapour canister unit with dust and mist filter.
>2% - complete oxygen mask and respiratory apparatus.

Personal Protection – Skin

Long PVC, Polyethylene or Neoprene gloves to be worn.
Acid-proof suit or apron.
Chemical-resistant boots.
Full overalls.

Personal Protection – Eyes

Face shield or safety goggles.

Other Protection

Avoid direct skin contact.
Ensure area is well ventilated.

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black to reddish black liquid.
Odour: Characteristic tar odour
Boiling Point: 160°C at 101.3kPa
Pour point : < 10°C
Flash Point : > 65°C closed cup
Auto-flammability: 500°C
Explosive Properties- Lower explosion limit (vol. %) 1.4 in air.
Density at 40°C : 1.05 g/cm³ (liquid)
Solubility – Water : <20g/l at 20°C
Solubility – Solvent: Soluble in dilute alkalis and many organic solvents e.g. alcohols, ether

10) STABILITY AND REACTIVITY

Conditions to avoid

Mildly unstable, avoid high temperatures (250°C).
Decomposes at these high temperatures together with release of toxic products.

Incompatible Materials

Al, Mg, Pb, Zn, Fe, Cu
Organic substances e.g. resorcinol



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Hazardous Decomposition

Toxic fumes when heated
No hazardous or violent reaction

11) TOXICOLOGICAL INFORMATION

Acute Toxicity

Stomach ache, nervous disorder, skin burns, damage to kidneys and liver.
Tremors and convulsions, unconsciousness and death may follow.

Notes to Physician:-

Gastric lavage may be dangerous.

Castor oil will delay absorption

No specific antidote.

Treatment is symptomatic.

Results in white discoloured deep skin burns.

LD 50 (oral -rats) 121mg/kg

LD 50 (skin – rats) 1100mg/kg

LD 50 (skin – rabbits) 1380mg/kg

Chronic Toxicity

May lead to chronic poisoning with gastro-intestinal upset and liver damage.

Skin rash may appear.

Penetration of healthy skin may cause general poisoning, resulting in death

LD50 = 414mg/kg (oral - rat)

LDLO = 140mg/kg (oral – human)

12) ENVIRONMENTAL PRECAUTIONS

At sufficient dilution the product is bio-degradable.

On penetration into subsoil water, the water may no longer be used for drinking purposes.

Considered to be a marine pollutant.

Standard value considered compatible with marine life <0.02 mg/l

Cover area with sand to absorb spilled material.

After the sand has been removed, wash the area with soap and water.

Contaminated sand to be disposed of by approved waste disposal service to a hazardous landfill.

Prevent contamination of ground water. Do not flush into municipal sewer.

Small Spills

Wear face-shield or goggles and PVC, polyethylene or neoprene gloves and full overalls.

Cover spilled substance with inert material like sand.

Collect absorbed material in suitable disposal area.

Consult experts for disposal - do not flush into municipal sewers

13) DISPOSAL CONSIDERATIONS

Disposal Methods

To be disposed of at hazardous landfill.

14) TRANSPORT INFORMATION

Tremcard No. 2X

UN no./ SIN 1268



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15) REGULATORY INFORMATION

Nervous disorder, heart failure, renal and hepatic lesions and failure may occur.

16) OTHER INFORMATION

For more information please contact FFS Refiners' Customer Services Department on (031) 459 5300

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