**PERTAMINA**  **Material Safety Data Sheet.**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : MINAREX – A

Trade names and Synonyms : Processing Oil

MSDS Code : MNX-001-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

|  |  |  |
| --- | --- | --- |
| **Component** | **CAS Number** | **% Vol** |
| 1. Aromatics hydrocarbon | **-** | > 30 |
| 1. Paraffinic hydrocarbon | **-** | > 20 |

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Brown liquid / characteristic.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : yes

**PERTAMINA**  **Material Safety Data Sheet**

**4.FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from exposure . If breathing is difficult , give

Oxygen . Contact medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Get medical assistance .In the meantime do not in

Duce vomiting.

**5. FIRE FIGHTING MEASURES**

**Flammable Properties**

Flash Point : > 425 ° F

Hazardous product of Combustion :Carbon and sulfur oxides

Fire Extinguishing Media : Carbon dioxide , form, dry chemical.

Fire Fighting Instructions : Evacuate area of all unnecessary per-

Sonnet . Shut off source , if possible.

Wear full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personnel ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Avoid contact with skin and eyes . wash thoroughly after

Handling . Use with adequate ventilation.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Good general mechanical ventilation and local

Exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Organic vapor respirator must be used for open

Large volumes.

PROTECTIVE GLOVES : Suitably resistant to the material being used

( neoprene of nitrite rubber ).

EYE PROTECTON

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specific Gravity at 60/60 ° F : 0,9885

Flash Point , ° C : > 425 ° F

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Corrosively : No

Chemical Stability : Stable

Incompatibility with other materials : strong oxidizers.

Decomposition : carbon and sulfur oxiders.

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations . In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

The date in this Material safety Data Sheet relates only to the specific material

Designated herein and does not relate to use in combination with any other

Material or in any process.

**PERTAMINA Material Safety Data Sheet**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : MINAREX – H

Trade names and Synonyms : Processing Oil

MSDS Code : MNX-005-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component CAS Number % vol

* - -

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Brown liquid / characteristic.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : yes

**PERTAMINA**  **Material Safety Data Sheet**

**4.FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from exposure . If breathing is difficult , give

Oxygen . Contact medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Get medical assistance .In the meantime do not in

Duce vomiting.

**5. FIRE FIGHTING MEASURES**

**Flammable Properties**

Flash Point : > 465 ° F

Hazardous product of Combustion :Carbon and sulfur oxides

Fire Extinguishing Media : Carbon dioxide , form, dry chemical.

Fire Fighting Instructions : Evacuate area of all unnecessary per-

Sonnet . Shut off source , if possible.

Wear full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personal ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Avoid contact with skin and eyes . wash thoroughly after

Handling . Use with adequate ventilation.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Good general mechanical ventilation and local

Exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Organic vapor respirator must be used for open

Large volumes.

PROTECTIVE GLOVES : Suitably resistant to the material being used

( neoprene of nitrite rubber ).

EYE PROTECTON

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specsific Garvity at 60/60 ° F : 1,0453

Flash Point , ° C : > 465 ° F

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Corrosively : No

Chemical Stability : Stable

Incompatibility with other materials : strong oxidizers.

Decomposition : carbon and sulfur oxiders

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations . In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

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Material or in any process.

**PERTAMINA**  **Material Safety Data Sheet**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : MINAREX – I

Trade names and Synonyms : Processing Oil

MSDS Code : MNX-002-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance formal name : Vacuum Distillate Oil

Substance Chemical family : Petroleum Hydrocarbon

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Dark Brown liquid / characteristic.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : yes

**PERTAMINA**  **Material Safety Data Sheet**

**4.FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from exposure . If breathing is difficult , give

Oxygen . Contact medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Get medical assistance .In the meantime do not in

Duce vomiting.

**5. FIRE FIGHTING MEASURES**

**Flammable Properties**

Flash Point : Min.380 ° F/400 ° F

Hazardous product of Combustion :Carbon and sulfur oxides

Fire Extinguishing Media : Carbon dioxide , form, dry chemical.

Fire Fighting Instructions : Evacuate area of all unnecessary per-

Sonnet . Shut off source , if possible.

Wear full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personal ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Avoid contact with skin and eyes . wash thoroughly after

Handling . Use with adequate ventilation.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Good general mechanical ventilation and local

Exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Organic vapor respirator must be used for open

Large volumes.

PROTECTIVE GLOVES : Suitably resistant to the material being used

( neoprene of nitrite rubber ).

EYE PROTECTON

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specific Gravity at 60/60 ° F : 0,990 – 1,030

Flash Point , ° C : Min .380 ° F/ 400° F

Odor : Strong Petroleum Odor

Color : Dark brown / black viscous fluid.

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Corrosively : No

Chemical Stability : Stable

Incompatibility with other materials : strong oxidizers.

Decomposition : carbon and sulfur oxiders

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations . In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

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**PERTAMINA**  **Material Safety Data Sheet**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : PARAFFINIC OIL 60

Trade names and Synonyms : P-60 / Paraffinic Hydrocarbon

MSDS Code : P60-001-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

|  |  |  |
| --- | --- | --- |
| Component | CAS Number | % vol |
| 1.Aromatics Hydrocarbon | - | < 5 |
| 2.Paraffinic hydrocarbon | - | > 50 |

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Clear liquid / mild odor.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : No

Carcinogenicity Information : No

**PERTAMINA**  **Material Safety Data Sheet**

**4.FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from fresh water . If not breathing is difficult , give

Artificial respiratory . If breathing is difficult, giveOxygen .

Get medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Do not induce vomiting . get medical assistance.

**5. FIRE FIGHTING MEASURES ,**

**Flammable Properties**

Flash Point : > 204 ° C

Hazardous product of Combustion :Co ,Co₂ & other oxides

Fire Extinguishing Media : Co₂ dry chemical, foam & water spray

Fire Fighting Instructions : Wear NIOSH / MSHA approved SCBA &

full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personal ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Store in tightly closed container in a dry , cool place away from

Sources of heat, ignition or strong oxidizers.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Provide adequate general and local exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Approved respiratory protective equipment

Must be used for open large volume.

PROTECTIVE GLOVES : Impervious gloves.

EYE PROTECTON : Chemical type goggles.

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specific Gravity at 60/60 ° F : o,8685

Flash Point , ° C : > 204

Color : Clear liquid

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Corrosively : No

Chemical Stability : Stable

Incompatibility with other materials : strong oxidizers.

Decomposition : carbon and sulfur oxiders

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations . In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

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Material or in any process.

**PERTAMINA**  **Material Safety Data Sheet**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : PARAFFINIC OIL 95

Trade names and Synonyms : P-95 / Paraffinic Hydrocarbon

MSDS Code : P60-002-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

|  |  |  |
| --- | --- | --- |
| Component | CAS Number | % vol |
| 1.Aromatics Hydrocarbon | - | < 5 |
| 2.Paraffinic hydrocarbon | - | > 50 |

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Clear yellow liquid / mild odor.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : No

Carcinogenicity Information : N0

**PERTAMINA**  **Material Safety Data Sheet**

**4.FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from fresh water . If not breathing is difficult , give

Artificial respiratory . If breathing is difficult, giveOxygen .

Get medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Do not induce vomiting . get medical assistance.

**5. FIRE FIGHTING MEASURES ,**

**Flammable Properties**

Flash Point : > 210 ° C

Hazardous product of Combustion :Co ,Co₂ & other oxides

Fire Extinguishing Media : Co₂ dry chemical, foam & water spray

Fire Fighting Instructions : Wear NIOSH / MSHA approved SCBA &

full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personal ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Store in tightly closed container in a dry , cool place away from

Sources of heat, ignition or strong oxidizers.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Provide adequate general and local exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Approved respiratory protective equipment

Must be used for open large volume.

PROTECTIVE GLOVES : Impervious gloves.

EYE PROTECTON : Chemical type goggles.

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specific Gravity at 60/60 ° F : o,8799

Flash Point , ° C : > 210

Color : Clear yellow liquid

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Corrosively : No

Chemical Stability : Stable

Incompatibility with other materials : strong oxidizers.

Decomposition : carbon and sulfur oxiders

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations . In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

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Material or in any process.

**PERTAMINA**  **Material Safety Data Sheet**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : HVI - 650

Trade names and Synonyms : High Viscosity Index

MSDS Code : HVI-004-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

High Viscosity Index Mineral 100 %

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Clear yellow liquid / mild odor.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : No

Carcinogenicity Information : N0

**PERTAMINA**  **Material Safety Data Sheet**

**4.FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from fresh water . If not breathing is difficult , give

Artificial respiratory . If breathing is difficult, giveOxygen .

Get medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Do not induce vomiting . get medical assistance.

**5. FIRE FIGHTING MEASURES ,**

**Flammable Properties**

Flash Point : > 300 ° C

Hazardous product of Combustion :Co ,Co₂ & other oxides

Fire Extinguishing Media : Co₂ dry chemical, foam & water spray

Fire Fighting Instructions : Wear NIOSH / MSHA approved SCBA &

full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personal ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Store in tightly closed container in a dry , cool place away from

Sources of heat, ignition or strong oxidizers.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Provide adequate general and local exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Approved respiratory protective equipment

Must be used for open large volume.

PROTECTIVE GLOVES : Impervious gloves.

EYE PROTECTON : Chemical type goggles.

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specific Gravity at 60/60 ° F : o,8983

Flash Point : > 300 ° C

Pour Point : - 9 ° C

Color : Clear yellow liquid

Kinematic Viscosity @40°C : 480,9 cSt.

Kinematic Viscosity @100°C : 31,48 cSt.

Vapor Pressure : < 0,5 Pa at 20 °C

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Corrosively : No

Chemical Stability : Stable

Incompatibility with other materials : strong oxidizers.

Decomposition : carbon and sulfur oxiders

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations. In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

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Material or in any process.

**PERTAMINA**  **Material Safety Data Sheet**

**1.CHENICAL PRODCT/COMPANY IDENTIFICATION**

Product Name : EXDO - 4

Trade names and Synonyms : Aromatic Extract Non Carcinogenic

MSDS Code : EXDO-001-PTM

Manufacturer : PERTMAINA , UP – Refinery, Cilacap,

Indonesia

Product Information : PERTAMINA , sub Division of Gas and

Petrochemical Refinery Operation

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Common Trade Name : Rubber Processing Oil

**3.HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

APPEARANCE / ODOR : Dark Brown / characteristic.

OSHA HAZARD DERTIMINATION : Not established.

**POTENTIAL HEALTH EFFCTS**

Primary Routes of Exposure / Entry : skin

Eye Contact : No

Skin Contact : yes

Inhalation : Yes

Ingestion : No

Carcinogenicity Information : No

**PERTAMINA**  **Material Safety Data Sheet**

**4. FIRST AID MEASURES**

**First Aid**

INHALATION : Remove from exposure . If breathing is difficult , give

Oxygen . Contact medical department immediately.

SKIN CONTACT : Wash contact areas with soap and water . launder

Contaminated clothing before reuse.

EYE CONTACT : Flush eyes running water for at least 15 minutes

Get medical assistance immediately.

INGESTION : Get medical assistance .In the meantime do not in

Duce vomiting.

**5. FIRE FIGHTING MEASURES**

**Flammable Properties**

Flash Point : Min.260 ° C

Hazardous product of Combustion :Carbon and sulfur oxides

Fire Extinguishing Media : Carbon dioxide , form, dry chemical.

Fire Fighting Instructions : Evacuate area of all unnecessary per-

Sonnet . Shut off source , if possible.

Wear full protective equipment.

**6.ACCIDENTAL RELEASE MEASURES**

Safeguard ( personnel ) : Use appropriate personal protective equipment

During clean – up.

Spill or Leak Procedure : Use proper safety equipment when handling this

Material . Sop leak if possible . Use absorbent

Materials ( such as : sand vermiculite, sawdust, etc )

To absorb the spillages . Collect and place in an

Appropriate disposal container.

**PERTAMINA**  **Material Safety Data Sheet**

**7. HANDLING AND STORAGE**

**Handling :** Store in tightly closed container in a dry , cool place away from

Sources of heat, ignition or strong oxidizers.

**Storage :** Store in a well- ventilated area , keep away from heat , spark

Flames . Container tightly closed.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Control**

VENTILATION : Provide adequate general and local exhaust.

**Personal Protective Equipment**

RESPIRATORY PROTECTION : Approved respiratory protective equipment

Must be used for open large volume.

PROTECTIVE GLOVES : Impervious gloves.

EYE PROTECTON : Chemical type goggles.

OTHER PRECAUTIONS : Wash thoroughly with soap and water to avoid

Any prolonged skin contact.

**9.PHYSICAL AND CHEMICAL PROPERTIES**

**Physical data**

Specific Gravity at 60/60 ° F : 0,9600 – 0,999

Flash Point : Min.260 ° C

Odour : Strong Petroleum Odor

Color : Dark Brown

Kinematic Viscosity at 210 ° F : >18 cSt.

Volatility : Negligible

**PERTAMINA**  **Material Safety Data Sheet**

**10. STABILITY AND REACTIVITY**

Material to avoid : Reactive with oxidizing agents, acids,alkalis

Nitrates, chlorites peroxide.

Chemical Stability : Stable

Polymerization : Will not occur

Decomposition : carbon and sulfur oxiders

**11. DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Dispose of waste an appropriate waste disposal facility in accordance with

Current applicable laws and regulations. In crenate waster if laws and

Regulations allow .

**12.TRANSPORTATION INFORMATION**

Not regulated

**13.REGULATORY INFORMATION**

There may be specific regulation at the local, regional or state / provincial level

That pertain this product.

**14.OTHER INFORMATION**

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Material or in any process.