

Material Safety Datasheet: Vacuum Residue (VR)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

Product name : Vacuum Residue

MSDS Number : PR-14

Company : Jordan Petroleum Refinery Company LTD.

Amman – Jordan.

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SECTION 2: HAZARDS IDENTIFICATION.

- This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
 - Carcinogenicity category 2.
 - Signal word: WARNING!
 - Precautionary statements:
 - Prevention: obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothes.
 - Response: if exposed or concerned: Get medical attention.
 - Supplemental label elements: Heated material can cause thermal burns.

Hazards not otherwise classified: May release Hydrogen Sulfide –poisonous gas- that can accumulate in confined spaces.

Potential acute:

health effects

Eye contact : Slightly irritating to the eyes. Possible tearing or redness.

Skin contact : No known significant effects or critical hazards.

Inhalation : Mist/ high concentration: May cause irritation to the nose, throat, upper

respiratory tract and lungs.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS.

Component	CAS number	Wt%
Residues (petroleum), vacuum	64741-56-6	0 - 100
Hydrogen Sulfide	7783-06-4	0.0001



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SECTION 4: FIRST AID MEASURES.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper

and the lower eyelids get medical attention.

Skin contact Rinse contaminated skin with plenty of water, Remove contaminated

clothing and shoes, get medical attention, wash contaminated clothing and

shoes before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable

> for breathing. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If

unconscious, obtain medical attention immediately.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable

extinguishing

media

Use an extinguishing media suitable for the surrounding fire.

Unsuitable

extinguishing

media

Do not use water jet.

Specific hazards

arising from the

chemical

In a fire or if heated, a pressure increase will occur and the container may burst. May release Hydrogen Sulfide -poisonous gas- that can accumulate

in confined spaces.

Hazardous

thermal

decomposition

products

Carbon Monoxide, Carbon Dioxide.

Special

Protective actions for

firefighters

Special PPE for

firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taking involving any personal

risk or without suitable training.

Firefighters shall wear appropriate protective equipment and self-

contained breathing apparatus with a full face-piece operated in positive

pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

For non- : emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.

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Avoid breathing vapor/mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment, may release Hydrogen Sulfide —poisonous gas- that can accumulate in confined spaces.

Environmental

Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the

product has caused environmental pollution.

Small spill :

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container.

Dispose via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, watercourses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material (e.g. sand) and place in container for disposal according to the local regulations. Dispose of

via a licensed waste disposal contractor.

SECTION 7. HANDLING AND STORAGE

Protective measures

Put on appropriate personal protective equipment, Avoid exposure, obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapor/mist. Keep in original container, keep containers tightly closed when not in use. Empty containers consider hazardous. Do not reuse containers.

Conditions for : safe storage

:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, well-ventilated area, away from incompatible materials (oxidizing materials). Keep containers tightly closed and sealed until ready for use. Containers that have been used must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid

environmental contamination.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit of Hydrogen sulfide ACGIH TLV (United States, 4/2014).

TWA: 1 ppm, 8 hours. STEL: 5 ppm, 15 minutes.

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended limits. May release Hydrogen Sulfide —poisonous gas- that can accumulate in

confined spaces.

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Environmental Exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with local environmental legislations. In some cases, fume scrubbers, filters, or engineering modifications will be necessary to

reduce emissions to acceptable levels.

Eye/face

:

Wear safety glasses and face shield if contact is likely.

protection

Skin protection :

Wear chemically resistant impervious gloves and appropriate footwear.

Personal protective equipment for the body should be selected based on

the task being performed and the risk involved.

Work/hygiene practices

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before

reuse. Always wash hands before eating, drinking, smoking or using the toilet. Ensure that safety showers are close to the work place.

SECTION 9.PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid (viscous)
Color	:	Black / Dark brown
Odor	:	Asphalt
Specific Gravity @15.6 °C	:	1
Flash Point	:	Min. 110 °C
Viscosity @ 100 °C	:	Max. 1000 cSt
Pour Point	:	Max. 35+ °C
Sulphur	:	Max. 5.5 Wt%

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity

available for this product or its ingredients

Chemical stability : The product is stable

Possibility of hazardous : Under normal conditions of storage and

reactions use, hazardous reactions will not occur-

Incompatible materials : Oxidizing materials

Hazardous decomposition : Under normal conditions of storage and

products use, hazardous decomposition products will

not be produced.

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Section 11: Toxicological Information

Residues (petroleum), hydrodesulfurized vacuum: LD50 Dermal, Rabbit, > 2000 mg/Kg

SECTION 12. ECOLOICAL INFORMATION

Product/ingredient	Result	Species	Exposure
name			
Hydrogen Sulfide	Acute EC50 62 μg/I fresh water	Crustaceans- Gammarus pseudolimnaeus	2 days
	Acute LC50 2 μg/l fresh water	Fish	96 hours

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of waste material must be conducted in accordance with ministry of Environment regulations.

SECTION 14. REGULATORY INFORMATION

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Listed. OSHA Hazard Communication Standard (29 CFR 1910.1200): listed.

SARA 311/312 Classification: carcinogenicity - category 2

SECTION 15. TRANSPORTATION INFORMATION

This product is transported according to related Jordanian laws and legislations.

SECTION 16.OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by : Safety and Environment Department

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