



MEHTA PETRO REFINERIES LTD.



Material Safety Data Sheet

Creation Date 13.04.2015

SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

1.1 Product Identifier

Product/Material: **MPRL ALISOL 40**
 Other products concerned: Turpentine substitute, Hydrocarbons, C9-C12, n-alkanes,
 Isoalkanes, cyclics, aromatics (2-25%)
 Pure Substance/mixture
 CAS No Substance
 64742 - 48 - 9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Formulation & Manufacture of substance, Distribution of substance,
 (re)packing of substances and mixtures, Uses in Coatings, Use in Cleaning Agents, Lubricant, Metalworking fluid, paint thinner, Used as a fuel, Lamp oil, Functional Fluids, Road and construction applications, Laboratory activities, Rubber production and processing,
 Water treatment chemical, Polymer processing.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Mehta Petro Refineries Limited Plot No. 1, Dewan & Sons Udyog, Village - Mahim. District - Palghar. Pin Code - 401 404 Maharashtra. INDIA
Routine Enquiries	++91 - 2525 - 25 4155
Fax	++91 - 2525 - 25 4502
Emergency Contact (24 Hours)	++91 - 2525 - 25 4155

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

Classification

Flammable liquids - Category 3 -

H226 Aspiration toxicity -

Category 1 - H304

Specific target organ systemic toxicity (single exposure) - Category

3 - H336 Chronic aquatic toxicity - Category 2 - H411

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DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Symbol(s)

Xn - Harmful

N - Dangerous for the environment

Classification

R10 - Xn; R65 - R66 - R67 - N; R 51-53

2.2. Label elements

Labelled according to: REGULATION (EC) No 1272/2008

Contains Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hazard pictograms



Signal Word

DANGER

Hazard Statements

H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. P280 - Wear protective gloves and eye/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P271 - Use only outdoors or in a well-ventilated area

P301 + P310 - IF SWALLOWED: Immediately call a doctor/physician P331 - Do NOT induce vomiting

P273 - Avoid release to the environment

Supplemental Hazard Statements

EUH066 - Repeated exposure may cause skin dryness or cracking

2.3. Other hazards

Physical-Chemical Properties are

Vapours may form explosive mixtures with air. Vapours heavier than air and may spread near ground level to sources of ignition.

Properties Affecting Health

Vapours inhaled in strong concentration have a

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narcotic effect on the central nervous system.

Environmental properties should not be released into the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Chemical nature aromatic
A complex and variable combination of paraffinic, cyclic and aromatic
Hydrocarbons having a carbon number range predominantly of C9 to C12 and boiling in the range of approximately 125°C to 210°C The aromatic content is between 2% and 25%.

SECTION 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Skin contact and	Remove contaminated clothing and shoes. Wash off with soap water
Inhalation or	In case of exposure to intense concentrations of vapours, fumes spray, transport the person away from the contaminated zone, keep warm and allow to rest.
Ingestion	If swallowed, do not induce vomiting - seek medical advice. Risk of product entering the lungs on vomiting after ingestion In this case, the casualty should be sent immediately to hospital.
Protection of First-Aiders	Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Eye contact	Burning feeling and temporary redness
Skin contact	Prolonged or repeated contact may dry skin and cause irritation.
Inhalation on the	Vapours inhaled in strong concentration have a narcotic effect on the central nervous system.



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Irritation of the respiratory tract due to excess fume, Causes headache, drowsiness or other effects to the central nervous system, loss of consciousness.

Ingestion

Nausea, Vomiting, Abdominal pain
Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Foam. Dry powder. Carbon dioxide (CO₂). Water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread
fire.

5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of
varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Advise for Fire-fighters

Special protective equipment for Fire-fighters In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Other information Cool containers / tanks with water spray.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

General Information

Use personal protective equipment
Evacuate non-essential personnel
Ensure adequate ventilation, especially in confined areas.
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
Do not touch or walk through spilled material.

6.2. Environmental precautions

General Information

Prevent further leakage or spillage if safe to do so like to collect large liquid spills. The product should not be allowed to enter drains, water courses or the soil.
Local authorities should be advised if significant spillages cannot be contained

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

Use non-sparking hand tools and explosion proof electrical equipment Contain spillage, and then collect with non-combustible absorbant material, & place in container for disposal according to local / national regulations following product recovery, flush area with water

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

for personal protection see section 8. Use only in well-Ventilated areas Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.

Technical measures

Ensure adequate ventilation.
Do not spray at high pressure (> 3 bar) WHILE MOVING THE PRODUCT:. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Do not allow splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation.

Prevention of fire and explosion

OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION) Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not smoke.

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Use explosion proof electrical equipment. Take precautionary measures against static discharges. Do not use compressed air for filling, discharging or handling.

Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems).

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product.

When using, do not eat, drink or smoke.

Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been

contaminated with product. Do not use abrasives, solvents or fuels. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage emissions

Conditions:

Design the installations in order to avoid accidental

of product (due to seal breakage, for example) onto hot casings or electrical contacts.

Storage installations should be designed with adequate bunds

so as to prevent ground or water pollution in case of leaks or

spills. Use explosion proof electrical equipment. Keep in a

bunded area. Keep in a dry, cool and well-ventilated place.

Keep away from open flames, hot surfaces and sources of

ignition. Ground/bond containers, tanks and transfer/receiving

equipment. Store at room temperature.

Keep containers tightly closed and properly labelled.

Materials to Avoid

Strong acids, Oxidizing agents

Packaging material container for

Keep only in the original container or in a suitable

this kind of product. Stainless steel

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Exposure limits oil mist: 10mg/m³, for 15 minutes

8.2. Exposure controls

Occupational Exposure Controls

Engineering Measures When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. Apply technical measures to comply with the occupational exposure limits

Personal Protective Equipment

General Information Protective engineering solutions should be implemented and in use before personal protective equipment is considered. These recommendations apply to the product as supplied. If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

Respiratory protection In the case of vapour formation use a respirator with filter model Type A. In case of vapours and aerosol formation: Respirator with combination filter for vapour/particulate, Type A/P2. Warning! filters have a limited use duration.

Eye Protection If splashes are likely to occur, wear: Safety glasses with side-shields

Skin and body protection Wear suitable protective clothing. Protective shoes or boots

Hand Protection Hydrocarbon-proof gloves for aromatic hydrocarbons.

Repeated or prolonged exposure			
<u>Glove Material</u>	<u>Glove Thickness</u>	<u>Break through time</u>	<u>Remarks</u>
Nitrile rubber	>0.45mm	>480 min	EN374
PVA		>480 min	EN374
In case of contact through splashing			
Chloroprene	>0.7mm	>60min	EN 374
Nitrile rubber	>0.3mm	>60min	EN 374

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1. Information on basic physical and chemical properties

Colour Colourless to pale yellow
Physical State @20°C Liquid



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Odour

Characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range	-38°C	Not applicable	
Boiling point/boiling range	140 -240 °C		ISO 3405
Flash point	38 °C		ISO 3405
Evaporation rate	65	Et Et=1	ISO 2719
Flammability Limits in Air			ISO 2719.
Upper	7 %		DIN 53170
Lower	0.7 %		
Vapour Pressure	< 5 hPa	@ 20 °C	
Vapour density		No information available	
Density	795 kg/m3	@ 15 °C	ISO 12185
Water solubility		Not applicable	
Solubility in other solvents		No information available	
Log Pow		Not applicable	
Autoignition temperature	> 230 °C		ASTM E 659-78
Viscosity, kinematic	0.85 mm2/s	@ 40 °C	ASTM E 659-78
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations		
Oxidizing Properties	This product is not considered oxidising based on chemical structure consideration		
Possibility of hazardous reactions	S. Not applicable		

9.2. Other information

Surface tension	0.0245 N/m	@ 25 °C	EN 14370
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SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing

10.4. Conditions to Avoid



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Conditions to Avoid

Heat, flames and sparks. Take precautionary measures against static discharges.

10.5. Incompatible Materials

Materials to Avoid

Strong acids. Oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of

varying toxicity such as carbon monoxide, carbon dioxide,
various hydrocarbons, aldehydes and soot.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects, Product Information

Skin contact

Prolonged or repeated contact may dry skin and cause irritation.

Eye contact

Not classified. Symptoms :. Burning feeling and temporary redness

Inhalation
on the

Vapours inhaled in strong concentration have a narcotic effect
central nervous system. Irritation of the respiratory tract due to excess
fume, Causes headache, drowsiness or other effects to the central
nervous system, loss of consciousness.

Ingestion

Symptoms :. Nausea, Vomiting, Abdominal pain.
Harmful: If swallowed accidentally, the product may enter the lungs
due to its low viscosity and lead to the rapid development of very
serious inhalation pulmonary lesions (medical survey during 48
hours).

Acute toxicity Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbon, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LD50 > 15000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 3400 mg/kg bw (rat)	LC50 (4h) > 13100mg/m3 (vapour) (rat - OECD 403)

Information derived on similar type of products

Sensitization

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Sensitization

n

Not classified as a sensitizer.



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Specific Effects

Carcinogenicity

Mutagenicity

y

Germ Cell

Mutagenicity

Reproductive toxicity

Developmental Toxicity

This product is not classified carcinogenic.

The mutagenic potential of the substance has been extensively studied in a range of in-vivo and in-vitro assays.

Genetic toxicity : negative.

No information available.

Results of guideline developmental toxicity studies on the substance

and OECD developmental toxicity screening studies showed no evidence of developmental toxicity in rats.

Repeated Dose Toxicity

Subchronic toxicity

No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) Central nervous system.

Specific target organ systemic toxicity (single exposure) Vapours may cause drowsiness and dizziness.

Specific target organ systemic toxicity (repeated exposure) No known effect based on information supplied.

Aspiration toxicity

The fluid can enter the lungs and cause damage (chemical pneumonitis, potentially fatal).

Other information

Other adverse effects cutaneous

Frequent or prolonged skin contact destroys the lipoacid layer and may cause dermatitis.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute aquatic toxicity Product Information

No information available

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

Readily biodegradable (75% after 28 days).



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Biodegradation						
Type:	Method	Sampling time	Specific effects	Values	Unit	Biodegradability
	OECD 301 F	28 days		75	%	Readily Biodegradable
12.3. Bio accumulative potential						
Product Information		Measured experimental data on hydrocarbon UVCB substances are not meaningful, since each of the constituents is likely to behave differently.				

12.4. Mobility in Soil

Soil Substance is a UVCB. Standard tests for this endpoint are not appropriate.

12.5. Other adverse effects

General Information No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused waste and Products Dispose of in accordance with the European Directives on hazardous waste.

Contaminated packaging Empty containers may contain flammable or explosive vapours. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EWC Waste Disposal No. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14 : TRANSPORT INFORMATION

ADR/RID

UN/ID No UN 1300 / 1268
 Proper shipping name MPRL ALISOL 40
 Hazard class 3
 Packing Group III
 ADR/RID-Labels 3
 Environmental hazard Yes
 Classification Code F1



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Tunnel Restriction Code (D/E)
Hazchem Code 3Y

IMDG/IMO

UN/ID No UN 1300 / 1268
Proper shipping name MPRL ALISOL 40
Hazard class 3
Packing Group III
Marine Pollutant P
EmS No F-E, S-E

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories *similar products are listed in*
EINECS/ELINCS
TSCA
DSL
ENCS
IECSC
KECL
PICCS
AICS
NZIoC

SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable
R11 - Highly flammable
R37 - Irritating to respiratory system
R38 - Irritating to skin
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking
R67 - Vapours may cause drowsiness and dizziness
R20/21 - Harmful by inhalation and in contact with skin
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under section 2 and 3

H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H332 - Harmful if inhaled

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H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of goods practice This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.