



SDS

COD:BI-HSE-SFO-0250-00

Product Name: DPG (aromatic hydrocarbons)

Company: Bandar Imam Petrochemical Company-Faravaresh

Catalogue NO: S.DPG.3

Unit: AR

Section 1: Identification

Product Name : DPG	Other Name: Pyrolysis gasoline, RPG, py gas, aromatic mixture.			<p> <input type="checkbox"/> Flammability <input type="checkbox"/> Health <input type="checkbox"/> Instability <input type="checkbox"/> Special hazard </p>
Formula:-	CAS NO: 68921-67-5	UN NO:-	Class: 3	
Composition/information on ingredients: Produced as by-product from the cracking of ethane, propane, butane, naphtha or gasoil to ethylene.				
Telephone & Telefax: 0615225-2300 , 2311		Address Email : dmoffice@bipc.org.ir		
Emergency phone number: 2222-125-119 / 2242-115				

Section 2: Hazard(s) Identification

Classification of the substance or mixture: Flammable liquids, Skin irritation, Eye irritation, Germ cell mutagenicity, Carcinogenicity, Specific target organ toxicity - repeated exposure, Aspiration hazard, Chronic aquatic toxicity.					
Label elements: Labelling according Regulation (EC) No 1272/2008 Signal word: Danger	Hazard pictogram				
	flammable	Toxic	Harmful	Harmful to environment	Irritation
Hazard statements: flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.					
Precautionary statements: Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. IF exposed or concerned: Get medical advice/ attention. Do NOT induce vomiting.					
Other hazards: -					

Section 3: Composition/Information on Ingredients

Substance:				
Name	Formula	CAS NO	Concentration%	Classification
-	-	-	-	-
Mixture: -				

Section 4: First-Aid Measures

Description of first aid measures
After inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.
Following skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.
After eye contact: rinse out with plenty of water for 15 minutes. Immediately call in ophthalmologist. Remove contact lenses.
After swallowing: rinse mouth, do not induce vomiting. Keep respiratory tract clear. Immediately call a poison center or doctor/physician.
Most important symptoms and effects, both acute and delayed:-
Indication of any immediate medical attention and special treatment needed:-

Section 5: Fire-Fighting Measures

Extinguishing Media
Dangers of fire : Combustible , Pay attention to flashback. Vapours are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.
Suitable extinguishing media: Water spray, Foam, Carbon dioxide (CO2), Dry powder.
Special hazards arising from the substance or mixture:-
Advice for firefighters
Special protective equipment for firefighters:-
Further information: Forms explosive mixtures with air at ambient temperatures. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks Combustion may produce carbon dioxide, toxic carbon monoxide.

Section 6: Accidental Release Measures

Personal precautions ,protective equipment and emergency procedures for:
Advice for non-emergency personnel: Do not scatter the material, Do not smoke. Remove ignition sources. Avoid spark Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Absorb spill with inert material (e.g., dry sand or earth), then place in a



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chemical waste container. transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions: Do not flush down sewer or drainage systems.

Methods and materials for containment and cleaning up:-

Reference to other sections: Indications about waste treatment see section 13.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling: Avoid inhaling vapour and/or mists. Avoid contact with skin, eyes and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Bulk storage tanks should be diked (bunded). When using do not eat or drink.

Advice on protection against fire and explosion:

Conditions for safe storage: Flammable liquid. Above flash point vapour-air mixtures will burn within flammable limits noted above. Keep away from oxidizing agents, heat and flame and other ignition sources.

Suitable Packaging: For containers, or container linings use mild steel, stainless steel., For container paints, use epoxy paint, zinc silicate paint.

Specific end use(s):-

Section 8: Exposure Controls/Personal Protection

Engineering measures: Use adequate ventilation to keep gas and vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Use explosion-proof equipment and lighting in classified/controlled areas.

Individual protection measures

Eye/face protection : Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

Skin protection: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing no later than the end of the work period and clean before reuse. Contaminated leather items, such as shoes, belts, and watchbands, should be removed and destroyed.

Respiratory protection : Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive-pressure self-contained self breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved positive-pressure supplied-air respirator.

Environmental exposure controls: Do not shed in sewage.

Section 9: Physical and Chemical Properties

From: Liquid.	Density at 15.6 °C: 0.76 – 0.80 gr/cm ³	PH: Not applicable.
Color: Pale yellow.	Relative vapour density :-	FLASH POINT:-
Odour: aromatic.	Vapour pressure: 9.5 psi	AUTOIGNITION TEMP: 498 °C
Molar Mass: -	Viscosity dynamic:-	LEL (V/V %): 1 %(V)
Melting point/range: No data available.	Decomposition temperat: No data available.	UEL (V/V %): -
Boiling point/range: 20 - 220 °C	Water solubility: Soluble in hydrocarbon solvents; insoluble in water.	Explosive properties: No data available.
Oxidizing properties: none.		

Section 10: Stability and Reactivity

Reactivity: stable

Chemical stability:-

Conditions to avoid: Heat, flames and sparks. Product and ignites due to static electricity.

Incompatible materials: oxidizing agents, acids, pure oxygen, melted sulfur.

Hazardous decomposition products: upon decomposition, this product emits carbon dioxide, toxic carbon Monoxide.

Section 11: Toxicological Information

Information on toxicological effects		Endpoint	Species	Exposure route	Value
OT:-	TLV-TWA:-	LD50	-	-	-
IDLH:-	TLV-STEL:-	LC50	-	-	-
Sensitisation:-	Carcinogenicity:-			Teratogenicity:-	

Inhalation: cause dangerous changes in immune system and blood. %50 of mice died after 7 hours inhalation 1000 ppm.

Ingestion: cause dangerous changes in immune system and blood. %50 of mice died after 930 gr/kg ingestion.



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Skin: %50 of rabbits die if benzene accedes 9400 ml/kg.

Eye: cause eye irritation

Further information

Intense effects: cause headaches and dizziness, effects central nervous system, death.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Based on information for benzene and toluene. Material is moderately toxic to aquatic organisms on an acute basis (LC50 between 1 and 10 mg/L in most sensitive species). Based on information for styrene and dicyclopentadiene. Material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100 mg/L in most sensitive species. toxic to aquatic organisms.

Persistence and degradability: degradation of this Material release aromatic agents.

Bioaccumulative potential:-

Mobility in soil: -

Other adverse effects:-

Section 13: Disposal Considerations (non-mandatory)

Sewage disposal-relevant information

Disposal methods: The product should not be allowed to enter drains, watercourses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Waste treatment of containers/packagings: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

Section 14: Transport Information (non-mandatory)

Basic shipping description: In accordance with TDG

Transport hazard class(es): Flammable Liquid.

US Department of Transportation Classification (49 CFR Parts 171-180)

Labelling



Proper shipping name: DPG

UN number:-

Class: 3

Packing group :-

Environmentally hazardous: yes.

Special precautions for user :-

Others informations: This mixture is one of the most dangerous and flammable in transportation.

Section 15: Regulatory Information

Safety, Health and Environmental regulations / legislation specific for the substance or mixture

EU regulations

- Restrictions on use: none
- Seveso Directive : 2012/18/EU (Seveso III): Listed.

National legislation: Ensure all national/local regulations are observed.

Chemical safety assessment: A CSA has been carried out.

Section 16: Other information

Further information:-

Issue Date: 2019.11.20

Last revised date: 2020.02.20

Version: 1.1

Editors: HS&E Manager.

Reference:

according to Regulation (EC) No. 1907/2006

DISCLAIMER OF LIABILITY

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.