

SDS

SAFETY DATA SHEET

Product: NAFTA-PETROQUÍMICA

Revision: 01	Date: 06/13/2024 F	Pages: 1/9
1 - IDENTIFICATION		
GHS Product identifier:	NAFTA-PETROQUÍMICA	
Other means of identification:	NAF6NQ	
Recommended use of the chemical:	Use as a raw material in the production of ethylene, propylene, xylene, toluene and benz	ene.
Specific restrictions on use:	There are not known restrictions on use.	
Supplier`s details:	Acelen Address: ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil. Phone number: (71) 3511-8000 / (11) 5225-8900	
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)	

2 - HAZARD IDENTIFICATION

Classification of the	Flammable Liquids - Category 1;
substance or mixture:	Skin Corrosion/Irritation - Category 2;
	Germ Cell Mutagenicity - Category 1B;
	Carcinogenicity - Category 1B;
	Reproductive Toxicity - Category 2;
	Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic;
	Aspiration Hazard - Category 1;
	Hazardous to the Aquatic Environment - Acute Hazard - Category 2;
	Hazardous to the Aquatic Environment - Chronic Hazard - Category 2.
Classification system	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

adopted:

GHS label elements, including precautionary statements

Pictograms:



Signal word:	DANGER
Hazard statement(s):	 H224 Extremely flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness if inhaled. H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.
Precautionary statement(s):	 PREVENTION: P203 Obtain, read and follow all safety instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment.



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	P241 Use explosion-proof electrical, ventilating and lighting equipment.	
	P242 Use non-sparking tools.	
	P243 Take action to prevent static discharges.	
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling.	
	P271 Use only outdoors or in a well-ventilated area.	
	P273 Avoid release to the environment.	
	P280 Wear protective gloves, protective clothing, eye protection, face pro	tection and hearing
	protection.	
	RESPONSE TO EMERGENCY:	
	P301 + P316 IF SWALLOWED: Get emergency medical help immediately.	
	P302 + P352 IF ON SKIN: Wash with plenty of water.	
	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contamin affected areas with water [or shower].	ated clothing. Rinse
	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for	or breathing.
	P318 IF exposed or concerned, get medical advice.	Ŭ
	P319 Get medical help if you feel unwell.	
	P321 Specific treatment.	
	P331 Do NOT induce vomiting.	
	P332 + P317 If skin irritation occurs: Get medical help.	
	P362 + P364 Take off contaminated clothing and wash it before reuse.	
	P370 + P378 In case of fire: Use carbon dioxide (CO ₂), foam, water mist and po P391 Collect spillage.	owder to extinguish.
	STORAGE:	
	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.	
	P403 + P235 Store in a well-ventilated place. Keep cool.	
	P405 Store locked up.	
	DISPOSITION:	
	P501 Dispose of contents and container in accordance with local regulations.	
Other hazards which do not result in classification:	The product has no other hazards.	

3 - COMPOSITION/INFO	RMATION ON INGREDIENTS
SUBSTANCE	A complex combination of hydrocarbons produced by distillation of crude oil. Consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately minus 20°C to 220°C (-4°F to 428°F).
Common chemical name:	Naphtha (petroleum), full-range straight-run.
Common name(s), synonym(s) of the substance:	Pre-fractioned gross naphtha.
CAS:	64741-42-0
Impurities and stabilizing additives which are themselves classified and which contribute to the	Does not contain components that contribute to the hazard.

acelen

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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classification of the		

substance:

4 - FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Skin:	Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.
Eye:	Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Most important symptoms/effects, acute and delayed:	Causes skin irritation with redness, pain and dryness. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness, may cause dizziness and nausea.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

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Extinguishing media:	Appropriate: carbon dioxide (CO ₂), foam, water mist and powder. Inappropriate: water directly onto the burning material.
Specific hazards arising from the chemical:	The combustion of the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or flames of matches and cigarettes, welding operations, pilot lights and electric motors. Can accumulate static charge by flow or agitation. Vapors from heated liquid can be ignited by static discharge. Vapors are heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Can travel great distances causing retrogression of the flame or new fires both in open environments in as confined ones. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without the use of appropriate clothing. Avoid exposure to the product. Stay in a safe place, with wind from behind. Use personal protective equipment as described in Section 8.
For emergency responders:	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining product



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cleaning up:	with dried sand, vermiculite or any other inert material. Put the adsorbed n containers and remove them to a safe place. Use tools that do not cause spar material. For final destination, proceed pursuant to Section 13 of this SDS. Large spill: confine the liquid into a dike away from the spills for later and pro mist can be used to reduce of vapors, but it wont prevent ignition in closed env	rks to collect absorbed

7 - HANDLING AND STORAGE		
Precautions for safe handling		
Precautions for safe handling:	Handle in a well-ventilated area or with a general local exhaust/ventilation system. Avoid formation of vapors and mists. Avoid exposure to product as effects may not be felt immediately. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.	
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.	
Conditions for safe sto	orage, including any incompatibilities	
Technical measures for prevention of fire and explosion:	Keep away from heat, sparks, open flames and hot surfaces Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the product during transfers. Only use anti- sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation and lighting explosion proof. Use personal protective equipment as described in Section 8.	
Conditions for safe storage, including any incompatibilities:	Store in a well ventilated place, away from sunlight. Keep container closed. Keep away from high temperatures and ignition sources. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.	
Packaging compatibilities:	Carbon steel and stainless steel.	
Inadequate packaging materials:	There are not known unsuitable material.	

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters		
Occupational exposure limit:	Not established.	
Biological limit:	Not established.	
Other limits and values:	Not established.	
Appropriate engineering controls:	Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the product.	
Individual protection measures, such as personal protective equipment (PPE)		
Eye/face protection:	Wide-view glasses with splash protection.	
Skin protection:	Safety shoes and safety clothing to protect the whole body from chemical splashes. Protective gloves against chemicals such as PVC.	
Respiratory protection:	It is recommended to use a respirator with a vapor or mist filter for average exposures above half the TLV-TWA. In cases where exposure exceeds 3 times the TLV-TWA value, use respirators. Follow guidance from the Respiratory Protection Program (PPR), 4th ed. São Paulo: Fundacentro, 2016.	
Thermal hazards:	It does not present thermal hazards.	



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9 - PHYSICAL AND CHE	MICAL PROPERTIES
Aspect:	Liquid.
Color:	Colorless.
Odour:	Not available.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	30 to 190 °C (86 to 374 °F).
Flammability:	Flammable.
Lower and upper explosion limit/flammability limit:	Upper: 5.9 % and Lower: 1.1 %.
Flash point:	< -35 °C (-31 °F) - Closed cup.
Auto-ignition temperature:	280 to 470 °C (536 to 878 °F).
Decomposition temperature:	Not available.
pH:	Not applicable.
Kinematic viscosity:	Not available.
Solubility(ies):	Partially miscible in water (≤ 2000 mg/L (≤ 2000000 mg/m ³) at 20 °C (68 °F)). Soluble in alcohol, benzene, chloroform and ether.
Partition coeficient n- octanol/water (log value):	log K_{ow} : 1.99 to 18.02 (calculated).
Vapour pressure:	< 12.7 psi (< 87563.452 Pa) at 37.8 °C (100.04 °F).
Relative vapour density:	2.5 (air = 1).
Density and/or relative density:	Relative density: 0.7 (water at 4 °C(39,2 °F) = 1).
Particle characteristics:	Not applicable.
Other information:	Distillation range: 30 – 190°C at 101,325 kPa (760 mmHg).

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.	
Chemical stability:	Stable product under normal conditions of temperature and pressure.	
Possibility of hazardous reactions:	Containers can explode when heated. When heated, it can release toxic and irritating vapors.	
Conditions to avoid:	Elevated temperatures. Ignition sources. Contact with incompatible materials.	
Incompatible material:	Strong oxidizing agents.	



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Hazardous decomposition products:	On combustion releases toxic and irritating vapours. When heated, it can r	release hydrogen sulfide.
11 - TOXICOLOGICA		

II - IONICOLOGICAL IN				
Acute toxicity:	Product not classified as acute toxic.			
	LC ₅₀ Vapours (rats, 4h): > 20 mg/L.			
	LD ₅₀ Oral (rats): > 5000 mg/kg.			
	LD ₅₀ Dermal (rabbits): > 2000 mg/kg.			
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.			
Serious eye damage/irritation:	It is not expected to cause eye irritation.			
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.			
Germ cell mutagenicity:	May cause genetic defects.			
Carcinogenicity:	May cause cancer.			
	According to IPIECA, petroleum products that result in IP $346 \ge 3\%$ (w/w) are considered carcinogenic to the skin.			
Reproductive toxicity:	Suspected of damaging fertility or the unborn child.			
STOT - Single exposure:	May cause drowsiness or dizziness if inhaled, may cause dizziness and nausea.			
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.			
Aspiration hazard:	May be fatal if swallowed and enters airways.			

12 - ECOLOGICAL INFORMATION

Toxicity:	Toxic to aquatic life with long lasting effects. NOEC (<i>Daphnia magna</i> , 21 d): > 1 mg/L; NOEC (<i>Pseudokirchneriella subcapitata</i> , 72 h): 0.5 mg/L; ErC ₅₀ (<i>Pseudokirchneriella subcapitata</i> , 72 h): 3.1 mg/L; EC ₅₀ (<i>Daphnia magna</i> , 48 h): 4.5 mg/L; LC ₅₀ (<i>Pimephales promelas</i> , 96 h): 8.2 mg/L.
Persistence and degradability:	It has no persistence and is considered rapidly degradable. Degradation rate: 90.35% in 28 days.
Bioaccumulative potential:	Presents high bioacumulative potencial in aquatic organisms. BCF: 0.4 to 6280 log K _{ow} : 1.99 to 18.02 (calculated).
Mobility in soil:	Not determined.
Other adverse effects:	The release of large amounts of product can cause undesirable environmental effects, such as the reduction of oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating and consequent suffocation of animals.

13 - DISPOSAL CONSIDERATIONS Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated



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for each specific product.

Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

14 - TRANSPORT INFOR	MATION
Road:	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	1268
Proper shipping name:	PETROLEUM DISTILLATES, N.O.S.
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	I
Environmental hazards:	The product is considered dangerous for the environment for land transport.
Railway regulations:	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	1268
Proper shipping name:	PETROLEUM DISTILLATES, N.O.S.
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	1
Environmental hazards:	The product is considered dangerous for the environment in rail transport.
Sea:	IMO - International Maritime Organization:IMDG Code - International Maritime Dangerous Goods Code.
UN number:	1268
Proper shipping name:	PETROLEUM DISTILLATES, N.O.S.
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	I
Environmental hazards:	The product is considered a marine pollutant.
EmS:	F-E,S-E
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	1268
Proper shipping name:	PETROLEUM DISTILLATES, N.O.S.



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Primary risk class or division:	3	
Subsidiary risk class or division:	NA	
Packing group:	I	
Environmental hazards:	The product is considered dangerous for the environment for air transport.	
Special precautions for user:	Not applicable.	
Maritime transport in bulk according to IMO instruments:	 Consult regulations: International Maritime Organization: MARPOL: Articles, protocols, ar interpretations of the International Convention for the Prevention of Pollution from S modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 1 International Maritime Organization: IBC code: International code for the c equipment of shipping carrying dangerous chemicals in bulk: With Standards and guid to the code. IMO, London, 2007. 	Ships, 1973, as 2006; onstruction and

15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

16 - OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

Version	Manufacture date	Changes
01	03/20/2023	Elaboration

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;

BCF - Bioconcentration factor;

CAS - Chemical Abstracts Service;

EC - European Community;

EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response;

EEC - European Economic Community;

 $ErC_{50}\,$ - Effective concentration that results in a 50% reduction in the growth rate;

IARC - International Agency for Research on Cancer;

Kow - Octanol-water partition coefficient;

 LC_{50} - Lethal Concentration 50%;

LD₅₀ - Lethal Dose 50%;

NIOSH - National Institute for Occupational Safety and Health;



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NOEC - No Observed Effect Concentration; TLV - Threshold Limit Value; TWA - Time Weighted Average; UN - United Nations. **Bibliographic references:** ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023. ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < http://echa.europa.eu/web/guest >. Access in: Mar. 2023. SUBSTANCE DATABASE. http://gestis-GESTIS Available at: < en.itrust.de/nxt/gateway.dll/gestis en/000000.xml?f=templates\$fn=default.htm\$3.0 >. Access in: Mar. 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: http://pubchem.ncbi.nlm.nih.gov/. Access in: Mar. 2023.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: http://monographs.iarc.fr/ENG/Classification/index.php. Access in: Mar. 2023.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: http://www.inchem.org/. Access in: Mar. 2023.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau. Available at: http://ecb.jrc.ec.europa.eu. Access in: Mar. 2023.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: http://www.cdc.gov/niosh/. Access in: Mar. 2023.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: < http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF >. Access in: Mar. 2023.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available at: http://chem.sis.nlm.nih.gov/. Access in: Mar. 2023.