

According to the Regulation No. 1907/2006

Page 1 of 29

Product		UNLEADED PETROL	Date: Edition:	2024/05/05 22		
			Edition:	22		
SECTION 1. I	DENTIFICATION O	F THE SUBSTANCE / MIXTURE AND OF T	HE COMPANY / UNE	DERTAKING		
1.1. Product	identifier					
- Trade nam	e:	UNLEADED PETROL				
		EUROSUPER 95, EUROSUPER 100, I	EUROSUPER 95 E5, E	UROSUPER		
		100 E5, EUROSUPER 95 E10 (UFI1) EUROSUPER 95 CLASS, EUROSUPE				
		MASTER GASOLINE 95, EUROSUPE				
		CLASS PLUS EXPERT, INA MASTER				
		E5 CLASS PLUS EXPERT, INA MASTE				
		100 E5 CLASS PLUS EXPERT, EU EXPERT (UFI2)	ROSUPER 95 E10 C	LASS PLUS		
		NON OXY BENZIN				
- Chemical n	ame:	-				
- Index no.:		-				
- EC no.:		-				
- CAS no.:						
- Registration no.:						
- UFI:		S2AC-TV5X-420T-15P1 (UFI1)				
		EDMH-JV8R-D200-4K0H (UFI2)				
- Form:		-				
- Product co	de:	1000298, 1002191, 1002279, 1002	2703, 1002817 (UFI1	.)		
		1000512, 1002212, 1002498, 1002	, ,	2706,		
		1002297, 1002700, 1002704, 1002818 (UFI2) 1002592				
1.2 Relevan	t identified uses of	f the substance or mixture and uses adv	ised against			
	lentified uses:	Industrial: Manufacture of Substar	•			
	lentined uses.	Professional: Use as a fuel	ice, Use as a fuel			
		Consumer: Use as a fuel				
- Uses advise	ed against:	The uses that are in the list above a	are relevant. Other u	ises are not		
	C		recommended unless an assessment that proves that the related			
		risks are controlled has been cond	ucted before starting	g that use.		
		he safety data sheet				
	rer/supplier:	INA-Industrija nafte, d.d.				
Address:	Av. V. Holjevca					
-		Zagreb, HRVATSKA				
Phone:		-842 / 00-385-1-6451-075 (24 h)				
Fax:	00-385-1-6452-					
SD & HSE	damaa af a aa	Phone: 00-385-1-64	+5U-8U3			
	ddress of a co for the safety data	• •				



According to the Regulation No. 1907/2006

Page 2 of 29

Product	UNLEADED PETROL		2024/05/05 22
1.4. Emergency Telephone Number			
- Emergency Service Telephone Number:	112		
Ministry of the Interior	00-385-1-6192-929		
Directorate for civil protection	00-385-1-4551-792		
Operative centre for civil protection	00-385-1-4814-911		
e-mail: <u>occz@civilna-zastita.hr</u>			
- Medical Information Telephone Numbe	r: 00-385-1-23-48-342		

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP):

Flam. Liq. 1; H224 Skin Irrit. 2; H315 Asp. Tox. 1; H304 Repr. 2; H361d Muta. 1B; H340 Carc. 1B; H350 STOT SE 3; H336 Aquatic Chronic 2; H411

Full text of H-phrases: see section 16.

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:



Signal word: Danger		
Hazard statements (H):	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.
	H340	May cause genetic defects.
	H350	May cause cancer.
	H361d	Suspected of damaging the unborn child.
	H411	Toxic to aquatic life with long lasting effects.



According to the Regulation No. 1907/2006

Page 3 of 29

Product		ED PETROL	Date:	2024/05/05
	UNLEAD	EDPETROL	Edition:	22
Precautionary statements (P):	P201	Obtain special instructions b	pefore use.	
	P210	Keep away from heat/sparks — No smoking.	s/open flames	s/hot surfaces.
	P273	Avoid release to the enviror	nment.	
	P280	Wear protective gloves protection.	s/protective	clothing/eye
	P301+ P310	IF SWALLOWED: Immediate doctor/physician.	ly call a POIS	ON CENTER or
	P331	Do NOT induce vomiting.		
	P403+ P233	Store in a well-ventilated pl closed.	асе. Кеер со	ntainer tightly

2.3. Other hazards

Vapours form flammable mixtures with air and explosive. Vapours are heavier than air: they can accumulate in confined spaces or in depressions, are spread at the soil and can pose risks of fire and explosion at a distance. In some circumstances, the product can accumulate static electricity in significant amounts, with the risk of shocks that may cause fire or explosions. The product does not meet the criteria for PBT or vPvB classification in Annex XIII of REACH.

OIN 6 - The classification as a reproductive toxicant category 2; H361f (Suspected of damaging fertility) needs not apply if it can be shown that the substance contains less than 3% w/w n-hexane (EINECS No 203-777-6).

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS						
-Substance:				Mixture	: X	
- Components co	ntributing to	product haza	rdousness:			
	Substance identification				Classification according to Regulation (E	
Substance name	CAS no.	EC no.	Registratio n no. (REACH)			No 1272/2008 (CLP)
Gasoline	86290-81-5	289-220-8	01- 211947133 5-39-0091	≤ 100		Carc. 1B; H350 Muta. 1B; H340 Asp. Tox. 1; H304
MTBE (Tert-butyl-methyl- ether)	1634-04-4	216-653-1	01- 211945278 6-27-xxxx	≤ 15	Flam. Liq. 2; H225 Skin Irrit. 2; H 315	
ETBE (2-ethoxy-2- methylpropane)	637-92-3	211-309-7	01- 211945278 5-29-xxxx	≤ 15	Flam. Liq. 2; H225 STOT SE 3; H336	
ethanol	64-17-5	200-578-6	01- 211945761 0-43-xxxx	≤ 10		Flam. Liq. 2; H225
methanol	67-56-1	200-659-6	-	< 3%		Flam. Liq. 2; H225 Acute Tox 3*; H301



According to the Regulation No. 1907/2006

Page 4 of 29

oduct		LINI		ור	Date:	2024/05/05
		UNLEADED PETROL			Edition:	22
					Acute Tox 3*; H311 Acute Tox 3*; H331 STOT SE 1; H370 Flam. Liq. 2; H225	
Benzene ⁽¹⁾	71-43-2	200-753-7	-	≤1	Carc. 1A; H350 Muta. 1B; H340 STOT RE 1; H372 Asp. Tox. 1; H304 Eye Irrit. 2; H319 Skin Irrit. 2; H315	
Toluene ⁽¹⁾	108-88-3	203-625-9	-	>1	Flam. Liq. 2 H225 Repr. 2; H361d Asp. Tox. 1; H304 STOT RE 2 *H373 Skin Irrit. 2; H315 STOT SE 3; H336	
n-hexane (1)	110-54-3	203-777-6	-	> 0,1	Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2 *; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H43	11

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- general information:	In case of ingestion, always assume aspiration into the lungs has occurred, accompanied by the pulmonary oedema hazard. Show the label on the packaging or the SDS.
- after inhalation:	Remove the person from dangerous area to fresh air. In case of headache, dizziness, nausea, and permanent complaints immediately seek medical attention.
	In case of fainting transport in lateral position to hospital, paying attention to the free passing of the air thorough the respiratory tract. In case of difficulty in breathing or respiratory arrest, open airways, initiate resuscitation (heart massage and artificial respiration) and immediately seek medical attention.
- after skin contact:	Take off the contaminated clothes and footwear. Thoroughly rinse the afflicted skin surface with water and soap for 10 - 15 minutes. In case of irritation, swelling or redness, immediately seek medical advice.
- after eye contact:	Remove contact lenses (if present) and flush the eyes with running water for at least 15 minutes. In case of irritation, blurred vision and swelling immediately seek medical attention.



According to the Regulation No. 1907/2006

Page 5 of 29

Product		Date:	2024/05/05	
	UNLEADED PETROL	Edition:	22	
- after ingestion:	DO NOT induce vomiting! Do not giv		-	

assume aspiration into the lungs has occurred. If vomiting occurs, keep the head below the level of hips to prevent penetration into the lungs. Immediately seek medical attention.

- personal protective No data available.

equipment for first aid responder:

4.2 Most important symptoms and effects, both acute and delayed

- after inhalation: May cause drowsiness or dizziness.
- after skin contact: Redness, dermatitis.
- after eye contact: May cause slight eye irritation.
- after ingestion: It can cause nausea or headache. May cause lung damage if swallowed.

Danger of pulmonary oedema due to aspiration in the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Only qualified medical personnel should administer oxygen.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- SUITABLE:	CO ₂ , wate and indoo	Heavy air foam (foam resistant to alcohols and polar solvents), dry powder, CO_2 , water mist. When using dry powder and CO_2 (for initial fires, minor fires, and indoor fires) attention is to be paid to the hazard of possible repeated flaring up of the fire after extinguishing.		
- UNSUITABLE:	Water jet	(danger of fire spread).		
5.2 Special hazards ar	ising from the	e substance or mixture:		
- Hazardous products:	combustion	Incomplete combustion of hydrocarbons can produce smoke containing CO, $\rm CO_2$.		
- Hydrocarbon vapours:		Very flammable substance (mixture). Danger from explosion. Vapours, being heavier than air, stay close to the ground and in recesses. Release in sewage system increases danger from explosion.		
5.3 Advice for firefigh	ters			
- Firefighting measures for special hazards:		Remove all ignition sources and, if necessary, call firemen. Special care should be taken of the fact that there is a permanent danger of creation of explosive mixture with the air at room temperature.		
- Special firefighting methods:		Use water mist and water spray for cooling the surfaces exposed to heat and for protection of people. Only those who are trained in fire protection may use water spray (dispersed water).		
- Special protective equipment for firefighters:		Self-sustained open-circuit compressed-air breathing apparatus (HRN EN 137). Wear protective clothing for firefighters (intervention suit) in accordance with HRN EN 469.		



SAFETY DATA SHEET

According to the Regulation No. 1907/2006

Page 6 of 29

Product		Date:	2024/05/05
	UNLEADED PETROL	Edition:	22
SECTION 6. ACCIDENTAL RELEASE	MEASURES		
	ive equipment and emergency procedure	S	
6.1.1. For non-emergency personnel			
- Protective equipment:	Use personal protective equipment liste unprotected persons from the affected		
- Accident prevention procedures:	Rooms at risk must be thoroughly of prohibited entry and work with open fill on a visible location. Measure the of vapours in the air, in line with regulation static electricity occurrence. Provide connecting and grounding of all equi- flammable gases detector. Do not use of inhale vapours, evaporation. Do not sm	lame and spark concentration of ns. Take measu electrical conc lipment. Contr electric equipm	ing devices of gasoline ires against luctivity by ol area by
- Procedure in case of accident:	Stand upwind from the spill site. Pr possible, in a safety manner. Define t discharging and spilling into waterc systems and soil by digging out a prote bags filled with dry sand, earth or clay of the area. In case of major leaks, call	the risk area a courses, canals ective ditch, fen . Provide good	nd prevent , drainage cing it with
6.1.2. For emergency responders:	Insulate the discharge area. Use perso listed in Section 8 and remove unpro affected area immediately.	-	
6.2 Environmental precautions:	Prevent discharging and spilling of the safely manner. Insulate the discharge and prevent discharging and spilling i drainage systems and soil by digging fencing it with bags filled with dry sand	area. Define th nto watercours g out a protee	ne risk area ses, canals, ctive ditch,
6.3 Methods and material for con	tainment and cleaning up		
6.3.1. For bunding, covering and capping:	Dig a protective ditch around the disch- bags filled with dry sand, earth, or clay.		e it off with
6.3.2. For cleaning up:	Use safety-type pump for reloading fro an empty tank / tank truck / tank car. Re ground using adsorption agents (saw and other inert materials). Place the wa contaminated surface soil level into we in well-vented rooms until disposal to b	emove remaind dust, mineral a aste material ar II-closed tanks t	er from the adsorbents, ad removed o be stored

of environmental protection.

In case of gasoline spill in working area, the fluid must be removed, and the surface washed with soapy water and then rinsed with clean water.

disposal of hazardous waste, authorized by the Ministry in charge



According to the Regulation No. 1907/2006

Page 7 of 29

Product	UNLEADED PETROL	Date: Edition:	2024/05/05 22
6.3.3. Other information:	Very flammable liquid and vapou properly ground the tank truck, m the responsible person and the exp	ark the accident a	rea and call

care of the consequences of the accident.

6.4 Reference to other sections: See sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Safe handling advice: Keep far from heat sources and eliminate immediately all ignition sources. Re-loading i.e., unloading/loading shall be performed at the sites designed for the purpose, ensuring the air ventilation/outlet. Use the equipment and devices in good working order. Do not use sparking tools. Work room/area and storage area shall be provided with impermeable floor, resistant to solvents. Floors in rooms endangered by explosive atmosphere shall have transitional resistance of <1 MΩ within the system for bypassing the static electricity.
Equipment shall be grounded, and appropriate protective measures shall be taken against static electricity: grounding, air ionization, use of antistatic material, maintaining air humidity above 65%, bypassing the static electricity through electric

influence.
7.1.2 Advice on general occupational hygiene:
Prohibited smoking, eating, drinking during the work, as well as keeping food in areas where the product is handled. Personal clothes shall be kept separately from the work clothes and workplace. Obligatory wearing of the prescribed work clothes, rubber boots, protective gloves, and goggles. Extremely dirty, soaked, or torn clothes must be immediately changed. Strictly avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

- SUITABLE: Store in well-sealed tanks, properly manufactured and equipped. Provide room/area ventilation and appropriate temperature. Take measures against the static electricity charge. Make sure that receiving tank farms are below self-supporting tanks.
- TO BE AVOIDED: Storage in the same room/area with other chemicals, particularly those that may cause fire. Use of sparking tools or devices/equipment that may produce sparks in storage area.
- Packaging materials
- RECOMMENDED: Original as made by the tank/container manufacturer with valid certification.
- NOT SUITABLE: Any other.

7.3 Specific end use(s): No data available.



According to the Regulation No. 1907/2006

Page 8 of 29

Product

UNLEADED PETROL

Edition:

Date:

22

2024/05/05

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Hazardous substance (CAS No.)	Occupational exposure limit values/short term values (OEL/STEL)		Biological limit values
	ppm	mg/m ³	
Gasoline, low boiling point gasoline - unspecified (86290-81-5)	300/500	-/-	No data.
Benzene ⁽¹⁾ (71-43-2)	0,2/-	0,66/-	28 μg /L (0,36 μmol/L) – blood immediately at the end of work shift 46 μg/g creatinine* (21,7 μmol/mol creatinine*) – urine at the end of work shift
⁽¹⁾ Carc 1A, Muta 1B, skin (3), limit (1,65 mg/m ³) from 5 April 2024 un			l 5 April 2024, limit value 0,5 ppm
n-hexane (110-54-3)	20/-	72/-	150 μg/L (1,74 μmol/L) – blood during exposure 1,66 μmol/L (40 ppm) – in extremely exhaled air during exposure
toluen (108-88-3)	50/100	192/384	1,0 mg/L (10,85 μmol/L) – blood immediately at the end of work shift 0,83 μmol/L (20 ppm) – in extremely exhaled air during exposure
MTBE (Tert-butyl-methyl-ether) (1634-04-4)	50/100	183,5/367	No data.
ethanol (64-17-5)	1000/-	1900/-	No data.
methanol (67-56-1)	200/-	260/-	7,0 mg/g creatinine* (24,7 mmol/mol creatinine*) – urine at the end of work shift

- Monitoring procedures:



According to the Regulation No. 1907/2006

Page 9 of 29

Product		Date:	2024/05/05
	UNLEADED PETROL	Edition:	22

8.2. Exposure controls

- Summary of risk management measures: Measurement of benzene vapours concentration in the air, in line with regulations.

8.2.1 Occupational exposure controls

- Description of operating procedure and technological control:

Make sure work areas are well-ventilated. Provide a decontamination sprayer for the eyes and face. Adopt personal hygiene measures: wash the hands after contact with the fuel, especially before eating, drinking and/or smoking. Regularly maintain and wash the clothing and equipment after use to remove dirt. Properly dispose of the contaminated clothing and equipment. Maintain cleanliness in accordance with good practice. Educate the employees on the hazards and control measures. Test and maintain the equipment used when handling the fuel: for example, personal protective equipment, ventilation system. Do not swallow. If swallowed, seek medical attention.

8.2.2 Personal protective equipment

- respiratory protection:	In concentrations exceeding 300 ppm obligatory wearing of protective masks for the whole face (HRN EN 136) with filter 'A' (HRN EN 14387). In concentrations exceeding 3000 ppm obligatory use of self - sustained open-circuit compressed - air breathing apparatus (HRN EN 137).
- hand protection:	Protective gloves of resistant and impermeable material. At full contact gloves of nitrile rubber 0,40 mm thick, at contact with drops gloves of nitrile rubber 0,11 mm thick (HRN EN 374). At shorter contact (4 h) PVA gloves may be used (polyvinyl alcohol).
- eye/face protection:	Protective goggles or guard (HRN EN 166) at lower concentrations, protective shields at higher concentrations.
- skin and body protection:	Use chemical resistant gloves, clothing, and apron (where there is a risk of splashing).
- Special hygienic and safety precautions:	Maintaining regular stipulated hygiene for work with hazardous substances. Take off the contaminated clothes and footwear. Equipment and devices shall be regularly inspected and maintained with running water. When handling this product, smoking, eating, and drinking are prohibited. After each

interruption of work, washing of hands is obligatory.

8.2.3 Environmental exposure controls

- Summary of risk management measures: No data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- physical state: liquid
- colour: colourless



According to the Regulation No. 1907/2006

Page 10 of 29

Product	UNLEADE	UNLEADED PETROL		2024/05/05 22
	ic of gasoline			
- odour threshold: No data ava	ilable.			
- pH value (indicate conc. and temp.):		Not applicable.		
 melting point/freezing point: 	°C	No data available.		
 boiling point/boiling range: 	°C	20 - 210		
- flash point:	°C	<0 (from literature)		
- evaporation rate:		No data available.		
- flammability (solid, gas):		Need to be heated to ignite		
- explosive limits:	vol. %	0,6 - 8 (from literature)		
- vapour pressure:	kPa	45 – 60 (summer)		
		60 – 90 (winter)		
- vapour density at 15°C:	kg/m³	No data available.		
- relative density:		No data available.		
- density at 15°C:	kg/m³	720 – 775		
- solubility (indicate solvent):	g/L	No data available.		
- solubility in water:	g/L	Insoluble.		
- partition coefficient n-octanol / water	logPow	Not applicable.		
- auto ignition temperature:	°C	280 - 470 (from literature)		
- decomposition temperature:	°C	No data available.		
- kinematic viscosity at 40 °C:	mm²/s	No data available.		
- oxidizing properties:		Not applicable.		
- conductivity:	pS/m	No data available.		
⁽¹⁾ Allowed vapour pressure devi kPa.	ation for moto	r gasoline containing bioetha	nol up to 5%	v/v is 8,0
9.2. Other information:	No data avail	able.		
	No data avail	able.		

SECTION 10. STABILITY AND REACT	IVITY
10.1 Reactivity:	Stable when the prescribed storage and use requirements are met.
10.2 Chemical stability:	Stable when the prescribed storage and use requirements are met.
10.3 Possibility of hazardous reactions:	No potentially hazardous reactions known.
10.4 Conditions to avoid:	Keep away from heat, open flame, sparks.
10.5 Incompatible materials:	Halogens, strong acids, bases, and strong oxidants.



According to the Regulation No. 1907/2006

Page 11 of 29

Product	Date:	2024/05/05
UNLEADED PETROL	Edition:	22

10.6 Hazardous decomposition
products:None in standard operating conditions and in proper storage;
however thermal decomposition may generate harmful gases:
carbon oxides (including carbon-monoxide, CO).

SECTION 11. TOXICOLOGICAL INF	ORMATION		
11.1 Information on hazard class	es as define	d in Regulation (EC) No 1272/2008:	
- Acute toxicity			
- oral (LD ₅₀):	> 5000 mg/kg _{body weight} (rat)		
- inhalation (LC_{50}):	> 5610 mg	g/m³ air (analytically) (rat)	
- dermal (LD ₅₀):	> 2000 mg	g/kg _{body weight} (rabbit)	
- Corrosion/Irritation			
- skin:	Redness, d	dermatitis (H315).	
- Serious damage/irritation			
- eyes:	No data a	available.	
- Sensitisation			
- skin:		No data available.	
- respiratory tract:		No data available.	
- Germ cell mutagenicity:		May cause genetic defects (H340).	
- Carcinogenicity:		May cause cancer (H350).	
- Reproductive toxicity:		Suspected of damaging the unborn child (H361d).	
- STOT (SE):		May cause drowsiness or dizziness (H336).	
- STOT (RE):		No data available.	
- Aspiration hazard:		May be fatal if swallowed and enters airways (H304).	
- Information on likely routes of	exposure:	No data available.	
- Symptoms related to the physica and toxicological characteristics:	al, chemical	Prolonged inhalation of vapours causes a feeling of intoxication, headache, urge to vomit, fainting.	
- Delayed and immediate effects chronic effects from short and exposure:		No data available.	
11.2. Information on other hazar	ds		
- Endocrine disrupting properties	:	No data available.	
- Other information:		No data available.	
SECTION 12. ECOLOGICAL INFOR	MATION		

12.1. Toxicity

- to aquatic organisms:	EL ₅₀ =4,5 mg/l (Daphnia magna), EL ₅₀ =3,1 mg/l (algae), LL ₅₀ =8,2 mg/l (fish)
- to ground organisms:	No data available.
HSE_INAG2.6_PD_INA2_R1	



According to the Regulation No. 1907/2006

Page 12 of 29

Product	INLEADED PETROL	Date: Edition:	2024/05/05 22
- to plants and land animals:	No data available.		
12.2. Persistence and degradability			
- biodegradation:	Not readily biodegra	adable.	
- other degradation processes:	No data available.		
- degradation in wastewater:	evaporates, but if la	Insoluble in water. Forms surface film that quickly evaporates, but if large quantities are spilled, may have harmful effect on aquatic organisms due to lack of oxygen.	
12.3. Bioaccumulative potential			
- bio-concentration factor (BCF):	No data available.		
12.4. Mobility in soil	Method: No	data available.	
 Known or predicted distribution in environmental compartments: 	No data available.		
- surface tension:	No data available.		
- absorption/desorption:	No data available.		
- other physical and chemical properties:	See section 9.		
12.5. Results of PBT and vPvB assessment			
- data from chemical safety report:		ulfil PBT and vPvB ed by Annex XIII	
12.6. Endocrine disrupting properties:	No data available.		
12.7. Other adverse effects:	No data available.		

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:	Waste shall be handed over to the person authorised for waste collection, disposal, or recovery. If possible, the waste shall be recovered.
- Waste codes:	13 07 02*
- Waste from residues:	There is no classic waste from this product except in case of unintentional release. For such cases see Section 6.
- Contaminated packaging:	Not applicable.
- Relevant provisions:	Act on waste management, Ordinance on waste management.

SECTION 14. TRANSPORT INFORMATION 14.1 UN number or ID number: 1203

14.2 UN proper shipping name:	GASOLINE or PETROL
14.3 Transport hazard class(es)	
ADR/RID/ADN/ICAO/IATA:	3



According to the Regulation No. 1907/2006

Page 13 of 29

Product	UNLEADED PETROL		Date:	2024/05/05
	UNLEADED P		Edition:	22
IMDG:	3			
14.4 Packing group				
ADR/RID/ADN/IMDG/ICAO/IATA:	II			
14.5 Environmental hazards				
ADR, RID, ADN, ICAO/IATA:	Toxic to aquatic	life with long lasting	g effects.	
IMDG:	Maritime polluta		-	
14.6 Special precautions for user				
ADR		RID		
Transport category: 2		Transport category:	2	
Vehicle for tank carriage: FL		Tank code: LGBF		
Tank code: LGBF		Label: 3		
Tunnel restriction code: (D/E)		Classification code:	F1	
Label:3		Hazard identificatio	n: 33	
Classification code: F1		Special provisions: 2	243, 534, TU9.	
Hazard identification: 33				
Special provisions: 243, 534, 664, T	Ū9, S2, S20.			
ADN		IMDG		
Label: 3		Subsidiary risk: mar	itime pollutant	
Additional requirements/Remarks:	14	Group of the cargo:	E	
Dangers: 3+N2+CMR+F		Special provisions: 2	243, 363, TP1.	
Equipment required: PP, EP, EX, TC)Х <i>,</i> А.	EmS: F-E, S-E		
Classification code: F1		Segregation group:	E	
Carriage permitted: T				
Type of tank vessel: N/2				
Anti-explosion protection required	: yes			
Maximum degree of filling in %: 97				
ICAO				
Label: 3				
Cargo IMP code: 3H				
Passenger and cargo aircraft: yes				
Cargo aircraft only: 60L				
ERG code: E2				
14.7 Maritime transport in bulk acc	cording to IMO ins	struments		
Trade name:		No	ot applicable.	
Pollution category (according to M	ARPOL, Annex II):	No	ot applicable.	
Vessel type (according to IBC Code):	No	ot applicable.	



According to the Regulation No. 1907/2006

INDUSTRIJA NAFTE, d.d.			Page 14 of 29
Product	UNLEADED PETROL	Date:	2024/05/05
		Edition:	22
Special and operative requirements	(according to IBC Code):	Not applicable.	
15. REGULATORY INFORMATION			
15.1 Safety, health and environmen	tal regulations/legislation speci	fic for the substance of	or mixture
- Applicable EU regulations:	Regulation (EC) No 190 of the Council of Registration, Evaluati Chemicals (REACH), Re Parliament and of th classification, labellin mixtures (CLP), Comm June 2020 amending A (REACH)	18 December 2006 on, Authorisation a egulation (EC) No 12 ne Council of 16 De g and packaging o nission Regulation (EU	5 concerning the nd Restriction o 72/2008 Europear ecember 2008 or f substances and J) 2020/878 of 18
- Applicable national regulations:	Chemicals Act; Ordina chemicals exposure d biological limit values; on waste managemen	luring work, exposur Act on Waste Manag	e limit values an
- Authorization information: -			
- Restriction information: -			
15.2 Chemical Safety Assessment			
- Chemical Safety Assessment carrie	d out (CSA):	YES X	NO
16. OTHER INFORMATION			
Revision indicators			
Section: Subject of c	change:		

Section:	Subject of change:
1	2 product names and one UFI added
3	composition
8	benzene OEL

Full text of H- phrases

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.
H340	May cause genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.



According to the Regulation No. 1907/2006

Page 15 of 29

Product		Date:	2024/05/05
	UNLEADED PETROL	Edition:	22

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS number	Chemical Abstract Service number
CLP	Classification, Labelling and Packaging of substances and mixtures
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
EC number	European Community number for identification of chemical substances commercially available in the EU
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code transport
LC50	Lethal concentration for 50% of tested organisms
LD50	Lethal concentration for 50% of tested organisms (medium lethal concentration)
OIN	Oil industry notes
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT (SE)	Specific Target Organ Toxicity (Single Exposure)
STOT (RE)	Specific Target Organ Toxicity (Repeated Exposure)
UFI	Unique formula identifier (according to section 5. Part A of Annex VIII of Regulation (EU) no. 1272/2008)
UVCB	Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
vPvB	Very persistent and very bioaccumulative

Statement:

This SDS is in compliance with the EU Regulation No. 1907/2006 and No. 1272/2008 of the European Parliament and the Council. It contains important user health and safety and environmental protection information. The information provided herein is not a substitute for any specification of quality and should not be deemed as a guarantee of the adequacy and applicability of this product for any purpose whatsoever. All information provided herein is based on our current knowledge and compliant with applicable legal regulations. The user is responsible for adherence to relevant legal regulations.

Data source:

- 1. <u>www.hzt.hr</u>
- 2. http://echa.europa.eu/hr
- 3. Handbook Identified Uses of Petroleum Substances 2023 Dossier Update, Concawe
- 4. Hazard Classification and Labelling of Petroleum Substances in the EEA 2023, Concawe



According to the Regulation No. 1907/2006

Page 16 of 29

2024/05/05

Product

UNLEADED PETROL

Date: Edition:

22

5. First Aid Reference Guide – 2021 update

APPENDIX: EXPOSURE SCENARIOS ACCORDING TO CHEMICAL SAFETY REPORT



According to the Regulation No. 1907/2006

Page 17 of 29

2024/05/05

22

Product

UNLEADED PETROL

Edition:

Date:

APPENDIX: Exposure Scenario

Table Identified Use Description and Exposure Scenario Number Key

Category	Identified use name	Sector	ES Number	Sector of Use (SU)	Product Category (PC)	Process Category (PROC)	Environmental Release Category (ERC)	Specific Environmental Release Category (SpERC)
Low boiling point naphtha (Gasoline)	01 – Manufacture of Substances (classified as H340 and/or H350 and/or H361;(containing 0% to 1% benzene)	Industrial	ES 9.1.1b	3, 8, 9	NA	1, 2, 3, 8a, 8b, 15	1	ESVOC <u>SpERC</u> 1.1.v1
Low boiling point naphtha (Gasoline)	12a – Use as a fuel: Industrial (classified as H340 and/ or H350 and/or H361; (containing 0% to 1% benzene))	Industrial	ES 9.10.1b	3	NA	1, 2, 3, 8a, 8b, 16	7	ESVOC <u>SpERC</u> 7.12a.v1
Low boiling point naphtha (Gasoline)	12b – Use as a fuel: Professional (classified as H340 and/ or H350 and/or H361;(containing 0% to 1% benzene))	Professional	ES 9.11.1b	22	NA	1, 2, 3, 8a, 8b, 16	9a, 9b	ESVOC SpERC 9.12b.v1
Low boiling point naphtha (Gasoline)	12c – Use as a fuel: Consumer (classified as H340 and/or H350 and/or H361; (containing 0% to 1% benzene))	Consumer	ES 9.12.1b	21	13	NA	9a, 9b	ESVOC SpERC 9.12c.v1



According to the Regulation No. 1907/2006

Page 18 of 29

Product

UNLEADED PETROL

Edition:

Date:

2024/05/05 22

1. MANUFACTURE OF UNLEADED PETROL - INDUSTRIAL

		naphtha (Gasoline) that is classified as H350 and/or H340
and/or H361; (containing 0% to Title	1% benzene)	
Manufacture of substances		
Use Descriptor		
Sector(s) of Use		
		3, 8, 9 1, 2, 3, 8a, 8b, 15
Process Categories		Further information on the mapping and allocation of PROC codes is contained in Table 9.1
Environmental Release Categor	ies	1
Specific Environmental Release	Category	ESVOC SpERC 1.1.v1
Processes, tasks, activities cove	red	
systems. Includes incidental ex storage, sampling, associated la vessel/barge, road/rail car and	oosures during recycli aboratory activities, m	nemical or extraction agent within closed or contained ing/ recovery, material transfers, naintenance and loading (including marine
Assessment Method		
See Section 3.		
Section 2 Operational condition	ns and risk managem	ient measures
· · · · · · · · · ·		
Section 2.1 Control of worker	exposure	
Product characteristics		
Physical form of product		ure > 10 kPa at STP OC5
Concentration of substance in		substance in the product up to 100 % (unless stated
product	differently) G13	
Amount used	Not applicable	res up to 8 hours (unless stated differently) G2
Frequency and duration of use/exposure	covers daily exposul	res up to 8 hours (unless stated differently) 62
Human factors not influenced	Not applicable	
by risk management	Not applicable	
Other Operational Conditions	Operation is carried	out at elevated temperature (> 20°C above ambient
affecting		Assumes a good basic standard of occupational
exposure	hygiene is implemer	
ContributingScenarios		ement Measures and Operating Conditions
General Measures (skin irritants). G19.	Avoid direct skin cor contact. Wear glove Clean up contamina Wash off skin contar prevent / minimise e E3	ntact with product. Identify potential areas for indirect skin s (tested to EN374) if hand contact with substance likely. tion/spills as soon as they occur. mination immediately. Provide basic employee training to exposures and to report any skin effects that may develop.
General Measures (carcinogens). <mark>G18</mark> .	elimination of rele systems, dedicated f down systems and c	dvances and process upgrades (including automation) for the ases. Minimise exposure using measures such as closed facilities, and suitable general / local exhaust ventilation. Drair lear transfer lines prior to breaking containment. Clean / flush possible, prior to maintenance.
General Measures (carcinogens). <mark>G18</mark> .	specific activity train (tested to EN374) a protection when its	ential for exposure: Restrict access to authorised staff; provid ning to operators to minimise exposures; wear suitable glove nd coveralls to prevent skin contamination; wear respirator s use is identified for certain contributing scenarios; clear u nd dispose of wastes safely.
		est and maintain all control measures. Consider the nealth surveillance. G20.



According to the Regulation No. 1907/2006

Page 19 of 29

Product	UNLEADED PETROL		2024/05			
		Edition:	22			
CS15 General exposures	Handle substance within closed systems. E47.					
(closed systems). + CS56	Sample via a closed loop or other system intend	ded to avoid exposure. E8.				
With sample collection.	Wear suitable gloves tested to EN374. PPE15.	·				
CS15 General exposures	Handle substance within a closed system. E47	•				
(closed systems). + CS54 Continuous process.						
CS15 General exposures	Handle substance within a closed system. E47.					
(closed systems). + CS55 Batch process.	Ensure operation is undertaken outdoors. E69.					
CS36 Laboratory activities	Handle within a fume cupboard or implement s minimise exposure. E12.	uitable equivalent methods to				
CS14 Bulk transfers	Ensure material transfers are under containme E66.	nt or extract ventilation.				
CS39 Equipment cleaning and maintenance	Drain down and flush system prior to equipmer E55.	nt break-in or maintenance.				
	Retain drain downs in sealed storage pending c ENVT4.	lisposal or for subsequent recycle	e.			
	Clear spills immediately. C&H13. Wear chemically resistant gloves (tested to EN3 employee training. PPE16.	374) in combination with 'basic'				
and maintenance	E55.					
	Retain drain downs in sealed storage pending d	isposal or for subsequent recycle	e.			
	ENVT4.					
	Clear spills immediately. C&H13.					
		Wear chemically resistant gloves (tested to EN374) in combination with 'basic'				
	employee training. PPE16.					
CS67 Storage.	Store substance within a closed system. E84					
	basis for the allocation of the identified OCs and	RMMs is contained in Appendice	es			
1 to 3 Section 2.2. Control of any iron						
Section 2.2 Control of environ	imental exposure					
Product characteristics						
	rC3]. Predominantly hydrophobic [PrC4a].					
Amounts used						
Fraction of EU tonnage used ir	nregion	0.1				
Regional use tonnage (tonnes/	/year)	5.12E2				
Fraction of Regional tonnage u		0.2				
Annual site tonnage (tonnes/y	ear)	1.0E2				
Maximum daily site tonnage (k	(g/day)	5.0E3				
Frequency and duration of use	9					
Continuous release [FD2].						
Emission days (days/year)		20				
Environmental factors not infl	uenced by risk management					
	nr	10				
ocal freshwater dilution facto						
_ocal freshwater dilution facto		100				
ocal marine water dilution fac		100				
ocal marine water dilution fac Other given operational condit Release fraction to air from pro	ctor tions affecting environmental exposure ocess (initial release prior to RMM)	1.0				
Local marine water dilution fac Other given operational condif Release fraction to air from pro Release fraction to wastewate	ctor tions affecting environmental exposure ocess (initial release prior to RMM) er from process (initial release prior to RMM)	1.0 0.00003				
Local marine water dilution fac Other given operational condi Release fraction to air from pro- Release fraction to wastewate Release fraction to soil from p	ctor tions affecting environmental exposure ocess (initial release prior to RMM)	1.0				



According to the Regulation No. 1907/2006

Page 20 of 29

Product	Date:	2024/05/05
UNLEADED PETROL	Edition:	22
Prevent discharge of undissolved substance to or recover from wastewater [T exposure is driven by humans via indirect exposure (primarily inhalation) [TCR1k		mental
f discharging to domestic sewage treatment plant, no onsite wastewater treatm		
Freat air emission to provide a typical removal efficiency of (%)	70	
Freat onsite wastewater (prior to receiving water discharge) to provide	4.4	
he required removal efficiency 🖾 (%)		
f discharging to domestic sewage treatment plant, provide the required	0	
onsite wastewater removal efficiency of 🖭 (%)		
Organisation measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils [OMS2]. Sludge should be inc [OMS3].	inerated, contained or re	eclaimed
Conditions and measures related to municipal sewage treatment plant		
Estimated substance removal from wastewater via domestic sewage treatment	95.5	
(%) Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) BMMs (%)	95.5	
treatment plant) RMMs (%) Maximum allowable site tonnage (M _{Safe}) (kg/d)	2.9E4	
Assumed domestic sewage treatment plant flow (m ³ /d)	2000	
Conditions and measures related to external treatment of waste for disposal		
External treatment and disposal of waste should comply with applicable local an	d/or national	
regulations [ETW3].		
Conditions and measures related to external recovery of waste		
External recovery and recycling of waste should comply with applicable local and	/or national regulations [E	RW1].
Additional information on the basis for the allocation of the identified OCs and R		
Section 3 Evnosure Estimation		
Section 3 Exposure Estimation 3.1 Health		
3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth	nerwise indicated.	
3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth <mark>G21</mark> .	nerwise indicated.	
 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment 		
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 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expose [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario 		del
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 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expose [EE2].	sure with the Petrorisk mod	
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According to the Regulation No. 1907/2006

Page 21 of 29

Product

UNLEADED PETROL

Edition:

Date:

22

2024/05/05

2. USE OF UNLEADED PETROL AS A FUEL - INDUSTRIAL

		naphtha (Gasoline) that is classified as H340 and/or H350
and/or H361;(containing 0% to	1% benzene)	
Title		
Use as a fuel		
Use Descriptor		
Sector(s) of Use		3
Process Categories		1, 2, 3, 8a, 8b, 16 Further information on the mapping and allocation of PROC codes is contained in Table 9.1
Environmental Release Categor	ries	7
Specific Environmental Release		ESVOC SpERC 7.12a.v1
Processes, tasks, activities cove	ered	
incidental exposures during act maintenance and handling of w	tivities associated with	e components) within closed or contained systems, including n its transfer, use, equipment
Assessment Method		
See Section 3.		
Section 2 Operational condition	ons and risk managem	ent measures
Section 2.1 Control of worker	exposure	
Product characteristics		
Physical form of product	Liquid, vapour press	ure > 10 kPa at STP <mark>OC5</mark>
Concentration of substance in		ubstance in the product up to 100 % (unless stated
product	differently) G13	
Amounts used	Not applicable	
Frequency and duration of	Covers daily exposur	res up to 8 hours (unless stated differently) G2
use/exposure		
Human factors not	Not applicable	
influenced by risk managemen		
Other Operational Conditions affecting exposure		more than 20°C above ambient temperature, unless stated umes a good basic standard of occupational hygiene is
ContributingScenarios		ement Measures and Operating Conditions
contributingScenarios		ement measures and operating conditions
General Measures (skin irritants) <mark>. G19</mark> .	contact. Wear glove: substance likely. Clea Wash off skin contar	ntact with product. Identify potential areas for indirect skin s (tested to EN374) if hand contact with an up contamination/spills as soon as they occur. mination immediately. Provide basic employee training to exposures and to report any skin effects 3
General Measures (carcinogens). <mark>G18</mark> .	elimination of relea systems, dedicated f down systems and c	dvances and process upgrades (including automation) for the ases. Minimise exposure using measures such as closed facilities and suitable general / local exhaust ventilation. Drain lear transfer lines prior to breaking containment. Clean / flush possible, prior to maintenance.
	specific activity train (tested to EN374) a protection when its	ntial for exposure: Restrict access to authorised staff; provide ning to operators to minimise exposures; wear suitable gloves nd coveralls to prevent skin contamination; wear respiratory use is identified for certain contributing scenarios; clear up nd dispose of wastes safely.
		est and maintain all control measures. Consider the nealth surveillance. G20.



According to the Regulation No. 1907/2006

Date:

Edition:

Page 22 of 29

Ρ	rc	ьd	u	C	t	

2024/05/05 22

CS502 Bulk closed unloading	Ensure material transfers are under containme	ent or extract ventilation.
CS8 Drum/batch transfers	Ensure material transfers are under containme	ent or extract ventilation.
	E66. Ensure material transfers are under containme	
CS507 Refuelling	Ensure material transfers are under containme E66.	ent or extract ventilation.
CS508 Refuelling aircraft	Ensure material transfers are under containme <mark>E66</mark> .	ent or extract ventilation.
CS15 General exposures	Handle substance within a closed system. E47	
(closed systems)	Provide a good standard of general ventilation windows etc. Controlled ventilation means air i fan. E1.	
GEST_12I Use as a fuel, CS107 (closed systems)	Handle substance within closed systems. E47.	
CS39 Equipment cleaning and maintenance.	Drain down system prior to equipment break-i Retain drain downs in sealed storage pending ENVT4. Clear spills immediately. C&H13. Provide a good standard of general ventilation windows etc. Controlled ventilation means air i fan. E1. Wear chemically resistant gloves (tested to E employee training. PPE16.	disposal or for subsequent recycle n. Natural ventilation is from doors s supplied or removed by a powered
CS67 Storage	Store substance within a closed system. E84. Provide a good standard of general ventilation windows etc. Controlled ventilation means air i fan. E1.	
Additional information on the k	basis for the allocation of the identified OCs and	RMMs is
contained in Appendices 1 to 3		
Section 2.2 Control of environ	mental exposure	
Product characteristics		
Substance is complex UVCB [Pr	C3]. Predominantly hydrophobic [PrC4a].	
Amounts used		
	region	0.1
Fraction of EU tonnage used in		
		1.4E6
Regional use tonnage (tonnes/	year)	1.4E6 1
Regional use tonnage (tonnes/) Fraction of Regional tonnage us	year) sed locally	
Regional use tonnage (tonnes/y Fraction of Regional tonnage us Annual site tonnage (tonnes/ye	year) sed locally ear)	1
Regional use tonnage (tonnes/y Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (ka	year) sed locally ear) g/day)	1 1.4E6
Regional use tonnage (tonnes/ Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (ka Frequency and duration of use	year) sed locally ear) g/day)	1 1.4E6
Regional use tonnage (tonnes/ Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (ka Frequency and duration of use Continuous release [FD2].	year) sed locally ear) g/day)	1 1.4E6
Regional use tonnage (tonnes/ Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (k Frequency and duration of use Continuous release [FD2]. Emission days (days/year)	year) sed locally ear) g/day)	1 1.4E6 4.6E6
Regional use tonnage (tonnes/y Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (kg Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ	year) sed locally ear) g/day) eenced by risk management	1 1.4E6 4.6E6
Regional use tonnage (tonnes/y Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (k Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ Local freshwater dilution factor	year) sed locally ear) g/day) eenced by risk management	1 1.4E6 4.6E6 300
Regional use tonnage (tonnes/v Fraction of Regional tonnage us Annual site tonnage (tonnes/ve Maximum daily site tonnage (k Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ Local freshwater dilution factor Local marine water dilution fac	year) sed locally ear) g/day) eenced by risk management	1 1.4E6 4.6E6 300
Regional use tonnage (tonnes/ve Fraction of Regional tonnage us Annual site tonnage (tonnes/ve Maximum daily site tonnage (ke Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ Local freshwater dilution factor Local marine water dilution factor Other given operational conditi	year) sed locally ear) g/day) eenced by risk management - tor	1 1.4E6 4.6E6 300
Regional use tonnage (tonnes/v Fraction of Regional tonnage us Annual site tonnage (tonnes/ve Maximum daily site tonnage (kg Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ Local freshwater dilution factor Local marine water dilution factor Cother given operational condition	year) sed locally gar) g/day) eenced by risk management tor tor sions affecting environmental exposure	1 1.4E6 4.6E6 300 10 100
Regional use tonnage (tonnes/y Fraction of Regional tonnage us Annual site tonnage (tonnes/ye Maximum daily site tonnage (k Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ Local freshwater dilution factor Local marine water dilution factor Cother given operational condition Release fraction to air from proc	year) sed locally sear) g/day) enced by risk management tor tor tors affecting environmental exposure press (initial release prior to RMM) from process (initial release prior to RMM)	1 1.4E6 4.6E6 300 10 100 0.0025
Release fraction to air from pro Release fraction to wastewater Release fraction to soil from pr	year) sed locally sear) g/day) enced by risk management tor tor tors affecting environmental exposure excess (initial release prior to RMM) ocess (initial release prior to RMM) ocess (initial release prior to RMM)	1 1.4E6 4.6E6 300 10 100 0.0025 0.00001 0
Regional use tonnage (tonnes/ve Fraction of Regional tonnage us Annual site tonnage (tonnes/ve Maximum daily site tonnage (ke Frequency and duration of use Continuous release [FD2]. Emission days (days/year) Environmental factors not influ Local freshwater dilution factor Local marine water dilution factor Cother given operational condition Release fraction to air from pro- Release fraction to soil	year) sed locally sear) g/day) enced by risk management tor tor tors affecting environmental exposure press (initial release prior to RMM) from process (initial release prior to RMM)	1 1.4E6 4.6E6 300 10 100 0.0025 0.00001 0

UNLEADED PETROL



According to the Regulation No. 1907/2006

Page 23 of 29

Product	Date:	2024/05
UNLEADED PETROL	Edition:	22
Risk from environmental exposure is driven by humans via indirect exposure (pri discharging to domestic sewage treatment plant, no onsite wastewater treatme		IT
Treat air emission to provide a typical removal efficiency of (%)	99.4	
Treat onsite wastewater (prior to receiving water discharge) to provide	76.9	
the required removal efficiency 🕮 (%)		
f discharging to domestic sewage treatment plant, provide the required	0	
onsite wastewater removal efficiency of 🖭 (%)		
Organisation measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils [OMS2]. Sludge should be incinera [OMS3].	ted, contained or reclaime	d
Conditions and measures related to municipal sewage treatment plant		
Estimated substance removal from wastewater via domestic sewage	95.5	
treatment (%)	5010	
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	95.5	
Maximum allowable site tonnage (M _{Safe}) (kg/d)	4.6E6	
Assumed domestic sewage treatment plant flow (m ³ /d)	2000	
Conditions and measures related to external treatment of waste for disposal		
Combustion emissions limited by required exhaust emission controls [ETW1]. Co	ombustion emissions consi	dered
in regional exposure assessment [ETW2].		
Conditions and measures related to external recovery of waste		
This substance is consumed during use and no waste of the substance is generat		
Additional information on the basis for the allocation of the indentified OCs and	PMM c is contained in Detre	
	NIVIIVIS IS CONtained In Petro	Drisk
file		Drisk
file Section 3 Exposure Estimation		Drisk
file Section 3 Exposure Estimation 3.1. Health		
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth		
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21.		
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment	erwise indicated.	
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expos [EE2].	erwise indicated.	
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expos [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario	erwise indicated.	
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless of G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expos [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario 4.1. Health	erwise indicated. sure with the Petrorisk mod	del
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expos [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario	erwise indicated. sure with the Petrorisk mod	del
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expose [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario 4.1. Health Predicted exposures are not expected to exceed the DN(M)EL when the Risk MacConditions outlined in Section 2 are implemented. G22.	erwise indicated. sure with the Petrorisk mod anagement Measures/Ope	del
file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expos [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario 4.1. Health Predicted exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material exposures are not expected to exceed the DN(M)EL when the Risk Material e	erwise indicated. sure with the Petrorisk mod anagement Measures/Ope	del
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file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expose [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario 4.1. Health Predicted exposures are not expected to exceed the DN(M)EL when the Risk Mac Conditions outlined in Section 2 are implemented. G22. Where other Risk Management Measures/Operational Conditions are adopted, t are managed to at least equivalent levels. G23. Available hazard data do not enable the derivation of a DNEL for dermal irritant e do not support the need for a DNEL to be established for other health effects. 4.2. Environment Guidance is based on assumed operating conditions which may not be applicable scaling may be necessary to define appropriate site-specific risk management me efficiency for wastewater can be achieved using onsite/offsite technologies, eithe	erwise indicated. sure with the Petrorisk mod anagement Measures/Ope hen users should ensure th affects. G32. Available haza G36. Risk Management Me e to all sites; thus, easures [DSU1]. Required re er alone or in combination [del rational nat risks rd data easures emoval DSU2].
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file Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21. 3.2. Environment The Hydrocarbon Block Method has been used to calculate environmental expose [EE2]. Section 4 Guidance to check compliance with the Exposure Scenario 4.1. Health Predicted exposures are not expected to exceed the DN(M)EL when the Risk Mac Conditions outlined in Section 2 are implemented. G22. Where other Risk Management Measures/Operational Conditions are adopted, t are managed to at least equivalent levels. G23. Available hazard data do not enable the derivation of a DNEL for dermal irritant e do not support the need for a DNEL to be established for other health effects. 4.2. Environment Guidance is based on assumed operating conditions which may not be applicable scaling may be necessary to define appropriate site-specific risk management me efficiency for wastewater can be achieved using onsite/offsite technologies, eithe	erwise indicated. sure with the Petrorisk mod anagement Measures/Ope hen users should ensure the effects. G32. Available haza G36. Risk Management Measures to all sites; thus, easures [DSU1]. Required re- er alone or in combination [5, either alone or in comb	del rational nat risks rd data easures emoval DSU2]. ination



According to the Regulation No. 1907/2006

Page 24 of 29

Product

UNLEADED PETROL

Edition:

Date:

22

2024/05/05

3. USE OF UNLEADED PETROL AS A FUEL - PROFESSIONAL

Section 1 Exposure Scenario Ti	tle Low boiling point	naphtha (Gasoline) that is classified as H340 and/or H350		
and/or H361;(containing 0% to	1% benzene)			
Title				
Use as a fuel				
Use Descriptor				
Sector(s) of Use		22		
Process Categories		1, 2, 3, 8a, 8b, 16		
r rocess categories		Further information on the mapping and allocation of PROC codes is contained in Table 9.1		
Environmental Release Categor	ries	9a, 9b		
Specific Environmental Release	Category	ESVOC SpERC 9.12b.v1		
Processes, tasks, activities cove	red			
Covers the use as a fuel (or fue	l additives and additiv	ve components) within closed or contained systems, including th its transfer, use, equipment maintenance and handling of		
Assessment Method				
See Section 3.				
Section 2 Operational conditional	ns and risk managem	ent measures		
Section 2.1 Control of worker	exposure			
Product characteristics				
Physical form of product	Liquid vanour press	ure > 10 kPa at STP OC5		
Concentration of substance in				
product	Covers percentage substance in the product up to 100 % (unless stated differently) G13			
Amounts used	Not applicable			
Frequency and duration of		res up to 8 hours (unless stated differently) G2		
use/exposure		es up to 8 nours (unless stated unrerentiy) 62		
Human factors not influenced	Not applicable			
by risk management				
Other Operational Conditions affecting exposure	Assumes use at not more than 20°C above ambient temperature, unless stated differently. G15. Assumes a good basic standard of occupational hygiene is implemented G1.			
ContributingScenarios		ement Measures and Operating Conditions		
Contributing Scenarios				
General Measures (skin irritants). G19.	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop. E3			
General Measures (carcinogens). <mark>G18</mark> .	elimination of rele systems, dedicated f down systems and c equipment, where p Where there is pote specific activity trair (tested to EN374) a protection when its spills immediately ar Regularly inspect, te	dvances and process upgrades (including automation) for the ases. Minimise exposure using measures such as closed facilities and suitable general / local exhaust ventilation. Drain lear transfer lines prior to breaking containment. Clean / flush possible, prior to maintenance. Initial for exposure: Restrict access to authorised staff; provide ning to operators to minimise exposures; wear suitable gloves nd coveralls to prevent skin contamination; wear respiratory use is identified for certain contributing scenarios; clear up nd dispose of wastes safely. est and maintain all control measures. Consider the mealth surveillance. G20.		



According to the Regulation No. 1907/2006

Page 25 of 29

2024/05/05

Product	
FIUUULL	

Date: UNLEADED PETROL

Edition:

22

CS15 General exposures (closed systems), OC9 Outdoor.	Handle substance within a closed system. E47			
CS502 Bulk closed unloading	Ensure material transfers are under containment or extract ventilation. E66.			
CS8 Drum/batch transfers	Ensure material transfers are under containme	ent or extract ventilation.		
CS507 Refuelling	Ensure material transfers are under containme E66.	ent or extract ventilation.		
GEST_12I Use as a fuel, CS107 (closed systems)	Handle substance within closed systems. E47.			
CS5 Equipment maintenance	Drain down system prior to equipment break-in or maintenance. E65. Retain drain downs in sealed storage pending disposal or for subsequent recycle. ENVT4. Clear spills immediately. C&H13. Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. E1. Ensure operatives are trained to minimise exposures. EI19.			
CS67 Storage.	Store substance within a closed system. E84. Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. E1.			
contained in Appendices 1 to 3 Section 2.2 Control of environ		RMMs is		
Product characteristics				
	C3]. Predominantly hydrophobic [PrC4a].			
Amounts used				
Fraction of EU tonnage used in	-	0.1		
Regional use tonnage (tonnes/year)		1.19E6		
Fraction of Regional tonnage used locally		0.0005		
Annual site tonnage (tonnes/year)		5.9E2		
Maximum daily site tonnage (kg/day)		1.6E3		
Frequency and duration of use				
Continuous release [FD2].				
Emission days (days/year)		365		
Environmental factors not influ				
Local freshwater dilution factor		10		
Local marine water dilution fac		100		
Other given operational condit	ions affecting environmental exposure			
Release fraction to air from pro	ocess (initial release prior to RMM)	0.01		
Release fraction to air from process (initial release prior to RMM) Release fraction to wastewater from process (initial release prior to RMM)				
		0.00001		
	ocess (initial release prior to RMM)	0.00001		
	ures at process level (source) to prevent release			
	sites thus conservative process release estimat d measures to reduce or limit discharges, air em			
	ure is driven by humans via indirect exposure (p e treatment plant, no onsite wastewater treatm			
Treat air emission to provide a	typical removal efficiency of (%)	N/A		



According to the Regulation No. 1907/2006

Page 26 of 29

Product	Date:	2024/05/
UNLEADED PETROL	Edition:	22
· · · · · / · · · · · · · · · · · · · ·	2.4	
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency ₪᠒(%)	3.4	
f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of 🖭(%)	0	
Organisation measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils [OMS2]. Sludge should be incinera OMS3].	ted, contained or reclaime	ed
Conditions and measures related to municipal sewage treatment plant		
Estimated substance removal from wastewater via domestic sewage	95.5	
treatment (%) Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	95.5	
Maximum allowable site tonnage (M _{Safe}) (kg/d)	1.5E4	
Assumed domestic sewage treatment plant flow (m^3/d)	2000	
Conditions and measures related to external treatment of waste for disposal	·	
Combustion emissions limited by required exhaust emission controls [ETW1]. Controls negligible regional exposure assessment [ETW2].	pmbustion emissions consi	idered
Conditions and measures related to external recovery of waste		
This substance is consumed during use and no waste of the substance is generat	ed [ERW3].	
Section 3 Exposure Estimation 3.1. Health The ECETOC TRA tool has been used to estimate workplace exposures unless oth G21.	erwise indicated.	_
321. 3.2. Environment		
The Hydrocarbon Block Method has been used to calculate environmental expose model [EE2].	ure with the Petrorisk	
Section 4 Guidance to check compliance with the Exposure Scenario		
4.1. Health		
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Ma Conditions outlined in Section 2 are implemented. G22.	nagement Measures/Ope	erational
Where other Risk Management Measures/Operational Conditions are adopted, th are managed to at least equivalent levels. G23.	nen users should ensure th	at risks
Available hazard data do not enable the derivation of a DNEL for dermal irritant e do not support the need for a DNEL to be established for other health effects.		
are based on qualitative risk characterisation. G37.		
4.2. Environment		may be
Guidance is based on assumed operating conditions which may not be applicab necessary to define appropriate site-specific risk management measures [DSU1]. Required removal efficiency for wastewater can be achieved using onsite/offsit combination [DSU2]. Required removal efficiency for air can be achieved using o in combination [DSU3]. Further details on scaling and control technologies	e technologies, either alo nsite technologies, either a	alone or



According to the Regulation No. 1907/2006

Page 27 of 29

Product

UNLEADED PETROL

Edition:

Date:

22

2024/05/05

4. USE OF UNLEADED PETROL AS A FUEL - CONSUMER

and/or H361;(containing 0% to		iling point naphtha (Gasoline) that is classified as H340 and/or H350 e)	
Title			
Use as a fuel			
Use Descriptor			
Sector(s) of Use		21	
Product Categories		13	
		Further information on the mapping and allocation of PC	
		codes is contained in Table 9.1	
Environmental Release Categor	ies	9a, 9b	
Specific Environmental Release		ESVOC SpERC 9.12c.v1	
Processes, tasks, activities cove			
Covers the consumer use of sul		iquid fuels	
Assessment Method			
See Section 3.			
Section 2 Operational conditio	ns and risk	management measures	
Section 2.1 Control of consume	er exposure		
Product characteristics			
Physical form of product	Liquid		
Vapour pressure (Pa)		pour pressure > 10 kPa at STP OC5	
Concentration of substance in product	Unless otherwise stated, cover concentrations up to 100% [ConsOC1]		
Amounts used	nounts used Unless otherwise stated, covers use amounts up		
	skin contact area up to 420cm2 [ConsOC5]		
Frequency and duration of		herwise stated, covers use frequency up to 0.143 times per day	
use/exposure	[ConsOC4]; covers exposure up to 2 hours per event [ConsOC14]		
Other Operational		nerwise stated assumes use at ambient temperatures [ConsOC15];	
Conditions affecting	assumes use in a 20 m ³ room [ConsOC11]; assumes use with typical ventilation		
exposure	[ConsOC8]		
Product Category		sk Management Measures and Operating Conditions	
PC13:FuelsLiquid -	OC	Unless otherwise stated, covers concentrations up to 1% [ConsOC1];	
subcategories added:		covers use up to 52 days/year[ConsOC3]; covers use up to 1 time/on	
Automotive Refuelling		day of use[ConsOC4]; covers skin contact area up to 210.00 cm2	
		[ConsOC5]; for each use event, covers use amounts up to 37500g	
		[ConsOC2]; covers outdoor use [ConsOC12]; covers use in room size of	
		100m3[ConsOC11]; for each use event, covers exposure up to	
		0.05hr/event[ConsOC14];	
	RMM	No specific RMMs developed beyond those OCs stated	
PC13: Fuels-Liquid -	OC	Unless otherwise stated, covers concentrations up to 1% [ConsOC1];	
subcategories added:	OC Unless otherwise stated, covers concentrations up to 1% [Cons covers use up to 52 days/year[ConsOC3]; covers use up to 1 tin		
Scooter Refuelling		day of use[ConsOC4]; covers skin contact area up to 210.00 cm2	
		[ConsOC5]; for each use event, covers use amounts up to 3750g	
		[ConsOC2]; covers outdoor use [ConsOC12]; covers use in room size	
		of 100m3[ConsOC11]; for each use event, covers exposure up to	
		0.03hr/event[ConsOC14];	
	RMM	No specific RMMs developed beyond those OCs stated	
PC13: FuelsLiquid -	OC	Unless otherwise stated, covers concentrations up to 1% [ConsOC1];	
subcategories added:	covers use up to 26 days/year [ConsOC3]; covers use up to 1 time/on		
Garden Equipment - Use	day of use [ConsOC4]; for each use event,		



According to the Regulation No. 1907/2006

Page 28 of 29

Product			Date:	2024/05/05	
		UNLEADED PETROL	Edition:	22	
			0.021		
		covers use amounts up to 750g [Co use [ConsOC12]; covers use in ro		11. for	
		each use event, covers exposure u	-		
		each use event, covers exposure u		+],	
	RMM	No specific RMMs developed beyo	nd those OCs stated		
PC13: FuelsLiquid	OC	Unless otherwise stated, covers co	oncentrations up to 1% [Cor		
(subcategories added):		covers use up to 26 days/year[Cor			
Garden Equipment -		day of use[ConsOC4]; covers ski			
Refuelling			[ConsOC5]; for each use event, covers use amounts up to 750g [ConsOC2]; Covers use in a one car garage (34m3) under typica		
		ventilation [ConsOC10]; covers use			
		for each use event, covers exposur			
				1,	
	RMM	No specific RMMs developed beyo			
Additional information on the 1 to 3	e basis for th	ne allocation of the identified OCs and	RMMs is contained in Appen	dices	
Section 2.2 Control of enviro	nmental ex	posure			
Product characteristics					
	PrC31. Pred	ominantly hydrophobic [PrC4a].			
Amounts used	1	, , , , , , , ,			
Fraction of EU tonnage used	in region		0.1		
Regional use tonnage (tonnes			1.39E7		
Fraction of Regional tonnage		/	0.0005		
Annual site tonnage (tonnes/			7.0E3		
Maximum daily site tonnage (kg/day)			1.9E4		
Frequency and duration of us					
Continuous release [FD2].					
Emission days (days/year)			365		
Environmental factors not inf	fluenced by	risk management			
Local freshwater dilution fact	or		10		
Local marine water dilution fa			100		
Other given operational cond	litions affect	ting environmental exposure			
Delegas frontion to six from u	vide dienerei	ive use (regional use entry)	0.01		
Release fraction to air from w [OOC7]) Release fraction to a			0.01		
RMM)	ii nom proc				
Release fraction to wastewater wide dispersive use [OOC8]			0.00001		
Release fraction to soil from wide dispersive use (regional use only) [OOC9]			0.00001		
		nicipal sewage treatment plant			
Risk from environmental exp	osure is driv	en by humans via indirect exposure (p	rimarily inhalation) [STP/k].		
Estimated substance remova	l from waste	ewater via domestic sewage	95.5		
treatment (%)					
Maximum allowable site tonnage (M _{safe}) (kg/d)		1.8E5			
Assumed domestic sewage treatment plant flow (m^3/d)			2000		
_		rnal treatment of waste for disposal			
		ed exhaust emission controls [ETW1].	Combustion emissions consid	lered	
in regional exposure assessm					
Conditions and measures rela	ated to exte	rnal recovery of waste			
		nd no waste of the substance is genera			
Additional information on the	e basis for th	ne allocation of the identified OCs and	RMMs is contained in Petrori	isk file	



According to the Regulation No. 1907/2006

Date:

Edition:

Page 29 of 29

2024/05/05

Product

UNLEADED PETROL

22

3.1. Health

The ECETOC TRA tool has been used to estimate consumer exposures, consistent with the content of ECETOC Report #107 and the Chapter R15 of the IR&CSA TGD. Where exposure determinants differ to these sources, then they are indicated.

3.2. Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model [EE2]

Section 4 Guidance to check compliance with the Exposure Scenario

4.1. Health

Predicted exposures are not expected to exceed the applicable consumer reference values when the operational conditions/risk management measures given in section 2 are implemented. G39.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23

4.2. Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures [DSU1]. Further details on scaling and control technologies are provided in SpERC factsheet

(http://cefic.org/en/reach-for-industries-libraries.html) [DSU4].