

According to the Regulation No. 1907/2006

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Product NON OXY GASOLINE RON <95 (B) Date: 2019/11/5 Edition: 1

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

- Trade name: NON OXY BENZIN RON<95 (B)

- Chemical name: Gasoline, low boiling point gasoline, unspecified

- Index no.: 649-378-00-4
- EC no.: 289-220-8
- CAS no.: 86290-81-5

- **Registration No.:** 01-2119471335-39-0091

- Product code: 1002485

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

- Relevant identified uses: Industrial: Manufacture of Substances, Distribution of

Substances, Use as intermediate

- Uses advised against: The uses that are in the list above are relevant. Other uses are

not recommended unless an assessment that proves that the related risks are controlled has been conducted before starting

that use.

1.3. Details of the supplier of the safety data sheet

- Manufacturer/supplier: INA-Industrija nafte, d.d.

Address: Av. Većeslava Holjevca 10

pp 555, 10002 Zagreb, HRVATSKA

Phone: 00-385-1-6450-842 / 00-385-1-6451-075 (24 h)

Fax: 00-385-1-6452-050 e-mail: sds@ina.hr

- Responsible person: SD & HSE

Mirela Mavrinac, B.Sc. Tel. 00-385-1-6450-803

Hrvoje Raukar, B.Sc.

1.4. Emergency Telephone Number

- Emergency Service Telephone Number: 112

 National Protection and Rescue Directorate
 00-385-1-3650-011

 Nehajska 5, 10000 Zagreb
 00-385-1-3650-084

 e-mail: info@duzs.hr
 00-385-1-3650-082

 00-385-1-3650-083

- Medical Information Telephone Number: 00-385-1-23-48-342

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Flam. Liq. 1; H224 Skin Irrit. 2; H315

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Asp. Tox. 1; H304 Repr. 2; H361fd Muta. 1B; H340 Carc. 1B; H350 STOT 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/GHS)

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						
	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.						
	H411	Toxic to aquatic life with long lasting effects.						
Precautionary statements (P):	P101	If medical advice is needed, have product container or label at hand.						
	P102	Keep out of reach of children.						
	P201	Obtain special instructions before use						
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.						
	P273	Avoid release to the environment.						
P280 Wear protective gloves/protective clo								
	P301+ 310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.						
	P331	Do NOT induce vomiting.						



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P403+ Store in a well-ventilated place. Keep container tightly closed.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS									
- Substance:	Х			Mixture:					
- Components	contributing	g to produc	t hazardousness:						
Substance name		Substance ide	entification	- [%]	Classification according to Regulation (EC) No				
	CAS no.	EC no.	Registration no. (REACH)	[/0]	1272/2008 (CLP/GHS)				
Gasoline	86290-81-5	289-220-8	01-2119471335-39- 0091	≤ 100	Carc. 1B; H350 Muta. 1B; H340 Asp. Tox. 1; H304				
Benzene ⁽¹⁾	71-43-2	200-753-7	-	1 - 5	Flam. Liq. 2; H225 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; H411				

⁽¹⁾ These components were not added on purpose but they are reported as important for classification



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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 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.

- after ingestion: DO NOT invoke vomiting! Do not give anything by mouth! Always

assume aspiration into the lungs has occurred. If vomiting occurs, keep the head below the level of hips in order to prevent penetration into the

lungs. Immediately seek medical attention.

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.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- SUITABLE: Heavy air foam (foam resistant to alcohols and polar solvents), dry powder,

CO₂, water mist. When using dry powder and CO₂ (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 spreading the fire).

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- Firefighting measures for special hazards:

Remove all ignition sources and, if necessary, call firemen and the police. 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 measures:

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 fire fighter protective equipment:

Self-sustained open-circuit compressed-air breathing apparatus (HRN EN 137). Wear protective clothing for firefighters (intervention suit) in accordance with HRN EN 469.

5.2 Special hazards arising from the substance or mixture:

Highly flammable. Danger of explosion. Vapours, being heavier than air, stay close to the ground and in

recesses.

5.3 Advice for firefighters: No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Rooms at risk must be thoroughly vented. Exhibit a sign of prohibited entry and work with open flame and sparking devices on a visible location. Measure the concentration of gasoline vapours in the air, in line with regulations. Take measures against static electricity occurrence. Provide electrical conductivity by connecting and grounding of all equipment. Control area by flammable gases detector. Do not use electric equipment. Do not inhale vapours, evaporation.

Do not smoke. Stand upwind from the spill site. Use personal protection equipment listed in Section 8.

6.2 Environmental precautions:

Define the risk area and prevent discharging and spilling into watercourses, canals, drainage systems and soil by digging out a protective ditch, fencing it with bags filled with dry sand, earth or clay. Provide good ventilation of the area. In case of major leaks notify the Emergency Service by dialling 112.



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6.3 Methods for cleaning-up and recovery:

Use safety-type pump for reloading from the damaged tank into an empty tank / tank truck / tank car. Remove remainder from the ground using adsorption agents (sawdust, mineral adsorbents, and other inert materials). Place the waste material and removed contaminated surface soil level into well-closed tanks to be stored in well-vented rooms until disposal to be done by legal entities for disposal of hazardous waste, authorized by the Ministry in charge 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.

- Additional warnings: Highly inflammable fluid and vapours! Stand upwind with

respect to release point.

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

7. HANDLING AND STORAGE

- Handling

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 $\text{M}\Omega$ 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

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- 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.

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/m³	
Gasoline, low boiling point gasoline - unspecified (86290-81-5)	300/500	-/-	no data
benzene (71-43-2)	1/-	3,25/-	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
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

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SAFETY DATA SHEET

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	toluene (108-88-3)	50/192	100/384	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

Monitoring procedures:

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, and ventilation system. Do not swallow. If swallowed, seek medical attention.

8.2.2 Personal protective equipment Personal protective equipment shall comply with national regulations and international standards.

- respiratory tract protection: In concentrations exceeding 300 ppm obligatory wearing of

protective masks for the whole face (HRN EN 136) with filter 'A'

(HRN EN 14387).

Use self - sustained open-circuit compressed - air breathing apparatus (HRN EN 137) in case of high concentrations, if oxygen

concentration is below approved level and in closed spaces.

- 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).

- eye protection: Protective goggles or guard (HRN EN 166) at lower

concentrations, protective shields at higher concentrations.

- skin and body protection: Use chemical resistant gloves, antistatic 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



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- Summary of risk management measures: No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- state: liquid- colour: colourless

- odour: characteristic of gasoline

- odour threshold: No data available.

- pH value (indicate conc. and temp.): Not applicable.

Melting point/freezing point:boiling point/boiling range:°CNo data.30-210

- flash point: °C <0 (from literature)

- Evaporation rate: No data.

- flammability (solid, gas): Need to be heated to ignite.

- explosive limits: vol. % 0,6 - 8 (from literature)

- vapour pressure: kPa 45 – 60 (May 1st – September 30th)

60 - 80 (November 1st - March 31st)

vapour density at 15°C: kg/m³ No data.
 relative density: No data.

- density at 15°C: kg/m³ 720,0 – 775,0

solubility (indicate solvent): g/L No data.Solubility in water: g/L Insoluble.

- auto ignition temperature: °C 280 - 470 (from literature)

disintegration temperature:
 viscosity (kinematic) at 40°C:
 mm²/s
 No data.

- oxidizing properties: Not applicable.

- conductivity: pS/m No data.

9.2 Other information: No data.

10. STABILITY AND REACTIVITY

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.



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10.6 Hazardous decomposition products: None in standard operating conditions and in

proper storage; however thermal decomposition may generate harmful gases, including carbon-

monoxide (CO).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- Acute toxicity

- oral (LD₅₀): $> 5000 \text{ mg/kg}_{\text{body weight}} \text{ (rat)}$

- inhalation (LC₅₀): $> 5610 \text{ mg/m}^3 \text{ air (analytically) (rat)}$

- dermal (LD₅₀): > 2000 mg/kg body weight (rabbit)

- Irritation/Corrosion

- skin: Redness, dermatitis (H315).

- eyes: No data available.

- respiratory tract: May cause lung damage if ingested.

- Sensitisation

skin: No data available.respiratory tract: No data available.

- **Aspiration hazard:** May be fatal if swallowed and enters airways. (H304).

- Other classic effects: (e.g. May cause drowsiness or dizziness (H336).

unconsciousness, particularly toxic

metabolites, etc.):

- Permanent effects due to acute or No data available.

chronic exposure:

- Special effects

- mutagenicity: May cause heritable genetic damage (H340).

- carcinogenicity: May cause cancer (H350).

fertility decrease: No data available.harmful effect on unborn child: No data available.

- toxicity to reproduction: Suspected of damaging fertility. (H361fd).

- other (e.g. endocrine disruptors): No data available.

- STOT (SE): May cause drowsiness or dizziness (H336).

STOT (RE): No data available.
 Prohibitions and restrictions: No data available.
 Other: No data available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

- to aquatic organisms: $EL_{50}=4,5 \text{ mg/l}$ (Daphnia magna), $EL_{50}=3,1 \text{ mg/l}$

(algae), $LL_{50}=8,2$ mg/l (fish)



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to ground organisms:to plants and land animals:No data available.

12.2. Persistence and degradability

- biodegradation: Not easily biodegradable.

- other degradation processes: No data available.

- degradation in wastewater: 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 item 9.

12.5. Results of PBT and vPvB assessment

- data from chemical safety report: Product does not fulfil PBT and vPvB criteria for

classification defined by Annex XIII of REACH

Regulation.

12.6. Other adverse effects: See item 9.

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 sustainable waste management, Ordinance on

3

Waste Catalogue, Ordinance on waste management.

14. TRANSPORT INFORMATION

14.1 UN number: 1203

14.2 UN proper shipping name: GASOLINE or PETROL

14.3 Transport hazard class(es)

ADR/RID/ADN/ICAO/IATA: 3

IMDG:



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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 effects.

IMDG: Maritime pollutant

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 identification: 33

Classification code: F1 Special provisions: 243, 534, TU9.

Hazard identification: 33

Special provisions: 243, 534, 363, 664, TU9,

S2, S20.

ADN IMDG

Label: 3 Subsidiary risk: maritime pollutant

Additional requirements/Remarks: 14 Group of the cargo: E

Dangers: 3+N2+CMR+F Special provisions: 243, 363, TP1.

Equipment required: PP, EP, EX, TOX, A. EmS: F-E, S-E

Classification code: F1 Segregation group: E

Carriage permitted: yes 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 Transport in bulk condition according to MARPOL Convention, Annex II and IBC

Codex

Trade name:

Pollution category (according to MARPOL, Annex II):

Vessel type (according to IBC Code):

Special and operative requirements (according to IBC Code):

Not applicable.

Not applicable.

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15. REGULATORY INFORMATION

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

- Applicable EU regulations: EU Regulation No. 1906/2007 and No. 1272/2008 of the

European Parliament and the Council; Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); EU Regulation No. 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer; EU Regulation No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals; EU Regulation No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants; Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and

repealing certain Directives;

- Applicable national regulations: Chemicals Act; Ordinance on workers protection to

dangerous chemicals exposure during work, exposure limit values and biological limit values; Act on Sustainable Waste Management, Ordinance on Waste

Catalogue, Ordinance on waste management.

- Authorization information: -

- Restriction information: -

- Chemical Safety Assessment carried out (CSA): YES X NO

16. OTHER INFORMATION

Revision indicators

Section: Subject of change:

First edition.

Full text of H- phrases, EUH- and P-phrases

H224	Extremely flammable liquid and vapour
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects
P101	If medical advice is needed, have product container or label at hand.



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P201	Obtain special instructions before use				
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
P233	Keep container tightly closed.				
P273	Avoid release to the environment				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.				
P331	DO NOT induce vomiting.				
P403+P233	Store in a well-ventilated place. Keep container	tightly close	d.		

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

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)

UVCB Chemical Substances of Unknown or Variable Composition, Complex

Reaction Products and Biological Materials

vPvB Very persistent and very bioaccumulative



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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. www.hzt.hr
- 2. http://echa.europa.eu/hr
- 3. Hazard classification and labelling of petroleum substances in the EEA, Concawe 2017.
- 4. Handbook Identified Uses of Petroleum Substances, Concawe, July 2018

APPENDIX: EXPOSURE SCENARIOS ACCORDING TO CHEMICAL SAFETY REPORT



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Table Identified Use Description and Exposure Scenario Number Key

IU	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)
1	Gasoline, Low boiling point – unspecified	01 – Manufacture of Substances (classified as H340 and/or H350 and/or H361;(containing 1% to 5% benzene))	Industrial	ES 9.1.1b	3, 8, 9	NA	1, 2, 3, 8a, 8b, 15	1	ESVOC SpERC 1.1.v1
2	Gasoline, Low boiling point – unspecified	01a – Distribution of substances (classified as H340 and/or H350 and/or H361; (containing 1% to 5% benzene))	Industrial	ES 9.12.1a	3	NA	1, 2, 3, 8a, 8b, 15	4, 5, 6a, 6b, 6c, 6d, 7	ESVOC SpERC 1.1b.v1
3	Gasoline, Low boiling point – unspecified	01b – Use as intermediate (classified as H340 and/or H350 and/or H361; (containing 1% to 5% benzene))		ES 01b	8, 9	NA	1, 2, 3, 8a, 8b, 15	6a	ESVOC SpERC 6.1a.v1



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 NON OXY GASOLINE RON <95 (B)</th>
 Date: 2019/11/5 Edition: 1

1. MANUFACTURE OF NON OXY GASOLINE RON <95 (B) - INDUSTRIAL

Section 1 Exposure Scena	rio Title Gasoline	e, Low boiling point – unspecified that is classified
as H350 and/or H340 and/o	r H361; (containir	ng 1% to 5% benzene)
Manufacture of substances		
Use Descriptor		
-		
Sector(s) of Use		3, 8, 9
Process Categories		1, 2, 3, 8a, 8b, 15 Further information on the mapping and allocation of PROC codes is contained in Table 9.1
Environmental Release Cate		1
Specific Environmental Rele	<u> </u>	ESVOC SpERC 1.1.v1
Processes, tasks, activities	s covered	
transfers, storage, sampling, marine vessel/barge, road/ra	associated labora	ess chemical within closed systems. Includes material tory activities, maintenance and loading (including tainer).
Assessment Method		
See Section 3.		
Section 2 Operational con	ditions and risk m	nanagement measures
Section 2.1 Control of wor	ker exposure	
Product characteristics		
Physical form of product		ssure > 10 kPa at STP OC5
Concentration of substance in product	Covers percentag differently) G13	e substance in the product up to 100 % (unless stated
Amount used	Not applicable	
Frequency and duration of use/exposure	Covers daily expo	sures up to 8 hours (unless stated differently) G2
Human factors not influenced by risk management	Not applicable	
Other Operational Conditions affecting exposure	temperature). OCT	
Contributing Scenarios		nagement Measures and Operating Conditions
General Measures (skin irritants). G19.	skin contact. Wear likely. Clean up co Wash off skin c	contact with product. Identify potential areas for indirect r gloves (tested to EN374) if hand contact with substance intamination/spills as soon as they occur. contamination immediately. Provide basic employee / minimise exposures and to report any skin effects that



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Product	NON OXY GASOLINE RON <95 (B)	Date: 2019 Edition:	9/11
	T-		
General Measures (carcinogens). G18.	Consider technical advances and process upgrade for the elimination of releases. Minimise exposure closed systems, dedicated facilities and suitable ventilation. Drain down systems and clear transfecontainment. Clean / flush equipment, who maintenance.	using measures such as general / local exhaus er lines prior to breaking	t
	Where there is potential for exposure: Restrict a provide specific activity training to operators to me suitable gloves (tested to EN374) and concontamination; wear respiratory protection where certain contributing scenarios; clear up spills improved wastes safely.	ninimise exposures; wea veralls to prevent ski n its use is identified fo	ar in or
	Regularly inspect, test and maintain all control me Consider the need for risk based health surveillan		
CS15 General exposures	Handle substance within closed systems. E47.	d (
(closed systems). + CS56 With sample collection.	Sample via a closed loop or other system intende Wear suitable gloves tested to EN374. PPE15.	u to avoid exposure. E8.	•
CS15 General exposures (closed systems). + CS54 Continuous process.	Ensure extraction ventilation on locations where E54. Handle substance within a closed system.		
CS15 General exposures (closed systems). + CS55 Batch process.	Handle substance within a closed system. E47. Ensure operation is undertaken outdoors. E69.		
CS36 Laboratory activities	Handle within a fume cupboard or implement sui to minimise exposure. E12.	table equivalent method	ls
CS14 Bulk transfers	Ensure material transfers are under containment <u>E66</u> .		
	g Drain down and flush system prior to equipment b	reak-in or maintenance.	
and maintenance	E55. Retain drain downs in sealed storage pending di recycle. ENVT4. Clear spills immediately. C&H13. Wear chemically resistant gloves (tested to ENbasic' employee training. PPE16.		
and maintenance	E55. Retain drain downs in sealed storage pending di recycle. ENVT4. Clear spills immediately. C&H13. Wear chemically resistant gloves (tested to EN: 'basic' employee training. PPE16.		
CS67 Storage.	Store substance within a closed system. E84 We accordance to EN374. PPE15.		
	the basis for the allocation of the identified OC	s and RMMs is	
contained in Appendices Section 2.2 Control of en			
Product characteristics	The fill of the file of the fi		
	B [PrC3]. Predominantly hydrophobic [PrC4a].		\dashv
Frequency and duration of			
Continuous release [FD2].	oi use		
Emission days (days/year)	300		
	t influenced by risk management		1
			-
Local freshwater dilution fac	CIOI		
Local freshwater dilution fac Local marine water dilution			



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Product	NON OXY GASOLINE RON <95 (B	`	Date:	2019	/11/5
	NOW OXT GAGGENE ROW 333 (B	,	Edition:		1
Release fraction to air fro	om process (initial release prior to RMM)	0,025			1
Release fraction to waste RMM)	ewater from process (initial release prior to	0.000019			
Release fraction to soil fr	rom process (initial release prior to RMM)	0,0001			
Technical conditions a	nd measures at process level (source) to pre	vent releas	е		
Common practices vary	across sites thus conservative process release	estimates us	ed [TCS1].		
Technical onsite conditions releases to soil	tions and measures to reduce or limit discha	rges, air en	nissions ai	nd	
Prevent discharge of und environmental exposure	exposure is driven by freshwater sediment. [To dissolved substance to or recover from wastewar is driven by humans via indirect exposure (prima c sewage treatment plant, no onsite wastewater	ter [TCR14] arily inhalati	on) [TCR1k		
Treat air emission to prov	vide a typical removal efficiency of (%)	70			
	(prior to receiving water discharge) to provide	4.4			
	c sewage treatment plant, provide the required	0			
	s to prevent/limit release from site				
Do not apply industrial sl	udge to natural soils [OMS2]. Sludge should be upplicable as there is no release to wastewater.		, contained	or	
	res related to municipal sewage treatment pl]
Estimated substance ren treatment (%)	noval from wastewater via domestic sewage	96.1			
	al from wastewater after onsite and offsite t) RMMs (%)	96.1			
Maximum allowable site		18395674	,09		
Assumed domestic sewa	age treatment plant flow (m ³ /d)	10000			1
Conditions and measur	res related to external treatment of waste for	disposal			
	waste of the substance is generated. [ETW4]	<u> </u>			
Conditions and measur	res related to external recovery of waste				
	waste of the substance is generated. [ERW2]				
Additional information contained in Petrorisk f	on the basis for the allocation of the indentif file	ied OCs an	d RMMs is		
Section 3 Exposure Es	timation				ĺ
3.1. Health					
G21.	nas been used to estimate workplace exposures	unless othe	rwise indic	ated.	
3.2. Environment					
The Hydrocarbon Block I model [EE2].	Method has been used to calculate environment	al exposure	with the Pe	etrorisk	



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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 Management Measures/Operational Conditions outlined in Section 2 are implemented. G22.

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

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. G32. Available hazard data do not support the need for a DNEL to be established for other health effects. G36. Risk Management Measures are based on qualitative risk characterisation. G37.

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].

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination [DSU2]. Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination [DSU3]. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html) [DSU4].



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Product 2019/11/5 Date: NON OXY GASOLINE RON <95 (B) Edition:

2. DISTRIBUTION OF NON OXY	GASOLINE RON <95 - INDUSTR	RIAL			
	Gasoline, Low boiling point – unspeci	fied that is classified as H340			
and/or H350 and/or H361; (containing 1% to 5% benzene)					
Title					
01a - Distribution of substance (classified as H340 and/or H350 and/or H361; (containing 0% to 1%					
benzene))					
Use Descriptor		T			
· /	Sector(s) of Use				
Process Categories		1, 2, 3, 8a, 8b, 15			
Environmental Release Categories		4, 5, 6a, 6b, 6c, 6d, 7			
Specific Environmental Release Cate					
Processes, tasks, activities covere					
drums and small packs) of substa laboratory activities. Excludes emiss	el/barge, rail/road car and IBC loadi nce, including its sampling, storage ions during transport.				
Assessment Method					
See Section 3.					
Section 2 Operational conditions a	<u> </u>				
Section 2.1 Control of worker expo	osure				
Product characteristics	T				
Physical form of product	Liquid				
Vapour pressure	Liquid, vapour pressure > 10 kPa at				
Concentration of substance in product	Covers percentage substance in the stated differently) G13.				
Frequency and duration of use/exposure	Covers daily exposures up to 8 hours (unless stated differently) G2.				
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.				
Contributing Scenarios	Specific Risk Management Measu Conditions				
General Measures (skin irritants). G19.	Avoid direct skin contact with produ indirect skin contact. Wear gloves contact with substance likely. Clea soon as they occur. Wash off skir Provide basic employee training to and to report any skin effects that m	s (tested to EN374) if hand an up contamination/spills as a contamination immediately. prevent / minimise exposures hay develop. E3			
General Measures (carcinogens). G18.	Consider technical advances and automation) for the elimination of using measures such as closed systematical systematical such as closed systematical system	releases. Minimise exposure stems, dedicated facilities and ntilation. Drain down systems reaking containment. Clean / prior to maintenance. Where rict access to authorised staff; to operators to minimise ested to EN374) and coveralls in respiratory protection when ntributing scenarios; clear up of wastes safely. Regularly trol measures. Consider the			



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Product	OXY GASOLINE RON <95 (B)	Date: 2019/11/5		
	OXT GAGGEINE RON (33 (B)	Edition: 1		
2045.0				
CS15 General exposures (closed systems). + CS56 With sample	Handle substance within closed systems. E47. Sample via a closed loop or other system intended to avoid exposure. E8. Wear			
collection.	suitable gloves tested to EN374. P			
	<u> </u>			
CS15 General exposures (closed systems). OC9 Outdoor.	Handle substance within closed sy	Handle substance within closed systems. E47.		
CS2 Process sampling	Cample via a algood loop or other	avetom to avoid exposure E9		
CS36 Laboratory activities.	Sample via a closed loop or other seems that the sample via a closed loop or other see	-		
•	methods to minimise exposure. E1	2.		
CS501 Bulk closed loading and unloading.	Ensure material transfers are u ventilation. E66.	nder containment or extract		
CS39 Equipment cleaning and	Drain down and flush system pr	ior to equipment break-in or		
maintenance	maintenance. E55. Retain drain do			
	disposal or for subsequent re			
	immediately. C&H13. Wear chemic			
CS67 Storage.	EN374) in combination with 'basic' Ensure operation is undertaken ou			
CS67 Storage.	within a closed system. E84.	ituoors. Eog. Store substance		
Section 2.2 Control of environmen				
Product characteristics	•			
Substance is complex UVCB. [PrC3]	Predominantly hydrophobic. [PrC4a	1		
Amounts used		-		
Fraction of EU tonnage used in region	on	0,1		
Regional use tonnage (tonnes/year)		11 000 000		
Fraction of Regional tonnage used lo	ocally	0,002		
Annual site tonnage (tonnes/year)		21 000		
Maximum daily site tonnage (kg/day)		71 000		
Frequency and duration of use				
Continuous release. [FD2]				
Emission days (days/year)		300		
Environmental factors not influen	ced by risk management			
Local freshwater dilution factor		10		
Local marine water dilution factor		100		
Other given operational condition	s affecting environmental exposur	e		
Release fraction to air from process	(initial release prior to RMM)	0,001		
Release fraction to wastewater from RMM)	process (initial release prior to	0.000001		
Release fraction to soil from process	(initial release prior to RMM)	0.00001		
Technical conditions and measure	es at process level (source) to prev	vent release		
Common practices vary across sites	thus conservative process release e	stimates used. [TCS1]		
Technical onsite conditions and market releases to soil	neasures to reduce or limit dischar	ges, air emissions and		
Risk from environmental exposure is	driven by freshwater. [TCR1a]			
No wastewater treatment required [T				
Treat air emission to provide a typical removal efficiency of (%)				
Treat onsite wastewater (prior to receiving water discharge) to provide 0,0				
the required removal efficiency >= (%)				
If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= (%)		0,0		
Organisation measures to prevent		•		



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Product NON OXY GASOLINE RON <95 (B) Date: 2019/11/5 Edition: 1

Do not apply industrial sludge to natural soils. [OMS2] Sludge should be	incinerated, contained or	
reclaimed. [OMS3] Conditions and measures related to municipal sewage treatment plant		
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,1	
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (tonnes/d)	2600	
Assumed domestic sewage treatment plant flow (m³/d)	2000	

Conditions and measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or national regulations. IETW31

Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or national regulations. [ERW1]

Section 3 Exposure Estimation

3.1. Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. G21.

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 DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. G22. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. G23. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. G32. Available hazard data do not enable the derivation of a DNEL for carcinogenic effects. G33. Available hazard data do not support the need for a DNEL to be established for other health effects. G36. Risk Management Measures are based on qualitative risk characterisation. G37.

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] Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. [DSU2] Required removal efficiency for air can be achieved using onsite technologies, either alone or in combination. [DSU3] Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). [DSU4]

Maximum Risk Characterisation Ratio for Air Emissions RCRair					≤ 0.0061		
Maximum	Risk	Characterisation	Ratio	for	Wastewater	Emissions	≤ 0.027
RCRwater							



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 NON OXY GASOLINE RON <95 (B)</th>
 Date: 2019/11/5 Edition: 1

3. USE OF NON OXY GASOLINE RON <95 AS INTERMEDIATE - INDUSTRIAL

Section 1 Exposure Scenario Title Gasolin		I that is classified as H340	
and/or H350 and/or H361; (containing 1% to Title	5% benzene)		
01b - Use of substance as intermediate (cla	ssified as H340 and/or H350 and/	or H361: (containing 0%	
to 1% benzene))	SSINEG AS 11340 AND/OF 11330 AND/	of 11301, (containing 07	
Use Descriptor			
Sector(s) of Use	•		
Process Categories		1, 2, 3, 8a, 8b, 15	
Environmental Release Categories		6a	
Specific Environmental Release Category		ESVOC SpERC 6.1a.v1	
Processes, tasks, activities covered			
Use of substance as an intermediate. In laboratory activities, maintenance and load container).			
Assessment Method			
See Section 3.			
Section 2 Operational conditions and ris	k management measures		
Section 2.1 Control of worker exposure			
Product characteristics			
Physical form of product	Liquid		
Vapour pressure	Liquid, vapour pressure > 10 k	Pa at STP OC5.	
Concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently) G13.		
Frequency and duration of use/exposure	Covers daily exposures up to 8 hours (unless stated differently) G2.		
Other Operational Conditions affecting exposure	Operation is carried out at elevated temperature (> 20°C above ambient temperature). OC7. Assumes a good basic standard of occupational hygiene is implemented G1.		
Contributing Scenarios	Specific Risk Management M Conditions	leasures and Operating	
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). G18.	Consider technical advances (including automation) for the Minimise exposure using me systems, dedicated facilities a exhaust ventilation. Drain d transfer lines prior to breaking equipment, where possible, pri there is potential for exposauthorised staff; provide specific properators to minimise exposu (tested to EN374) and co contamination; wear respirator	e elimination of releases. easures such as closed and suitable general / local own systems and clear containment. Clean / flush for to maintenance. Where sure: Restrict access to ecific activity training to res; wear suitable gloves weralls to prevent skin	



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Product	4001 INE DOM 05 (D)	Date: 2019/11/5	;		
NON OXY GASOLINE RON <95 (B)		Edition: 1			
	is identified for certain contrib spills immediately and disp Regularly inspect, test and mai Consider the need for risk b G20.	oose of wastes safely ntain all control measure	y. s.		
CS15 General exposures (closed systems). + CS56 With sample collection.	Handle substance within close via a closed loop or other s exposure. E8. Wear suitable PPE15.	system intended to avoi	id		
CS15 General exposures (closed systems).	Handle substance within a clo ventilation on exposure locatio		е		
CS67 Storage.	Store substance within a cloappropriate gloves in accordance	e with EN 374. PPE15.			
CS36 Laboratory activities	Handle within a fume cupboa equivalent methods to minimis	e exposure. E12.			
CS14 Bulk transfers	Ensure material transfers ar extract ventilation. E66.				
CS39 Equipment cleaning and maintenance			ed e. ar		
Section 2.2 Control of environmental expo					
Product characteristics					
Substance is complex UVCB. [PrC3] Predom	inantly hydrophobic. [PrC4a]				
Amounts used					
Fraction of EU tonnage used in region		0,1			
Regional use tonnage (tonnes/year)		6,3E+05			
Fraction of Regional tonnage used locally		2,4E-02			
Annual site tonnage (tonnes/year)		1,5E+04			
Maximum daily site tonnage (kg/day)		5,0E+04			
Frequency and duration of use		1			
Continuous release. [FD2]					
Emission days (days/year)		300			
Environmental factors not influenced by ri	isk management				
Local freshwater dilution factor		10			
Local marine water dilution factor		100			
Other given operational conditions affection	ng environmental exposure	1			
Release fraction to air from process (initial rel	lease prior to RMM)	2,5E-02			
Release fraction to wastewater from process (initial release prior to RMM)		1,3E-03			
Release fraction to soil from process (initial release prior to RMM)		0.001			
Technical conditions and measures at process level (source) to prevent release					
Common practices vary across sites thus conservative process release estimates used. [TCS1]					
Technical onsite conditions and measures to reduce or limit discharges, air emissions and					
releases to soil					
Risk from environmental exposure is driven by freshwater sediment. [TCR1b]					
Prevent discharge of undissolved substance to or recover from onsite wastewater. [TCR14]					
If discharging to domestic sewage treatment	-				
Treat air emission to provide a typical removal efficiency of (%) 8,0E+01					



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Product	NON OVY CASOLINE DON OF (D)	Date:	2019/11/5
	NON OXY GASOLINE RON <95 (B)	Edition:	1
Treat onsite wastewate required removal efficie	er (prior to receiving water discharge) to provide the ency >= (%)	95,7	
	stic sewage treatment plant, provide the required oval efficiency of >= (%)	0,0	
Organisation measur	es to prevent/limit release from site		
reclaimed. [OMS3] Not	sludge to natural soils. [OMS2] Sludge should be incit applicable because there is no release in waste water. [ained or
	sures related to municipal sewage treatment plant		
	e is no release to wastewater. [STP1]	T	
treatment (%)	emoval from wastewater via domestic sewage	96,1	
(domestic treatment pla		96,1	
wastewater treatment i		5,5E+04	
	wage treatment plant flow (m3/d)	2,0E+03	
Conditions and meas	sures related to external treatment of waste for dis	posal	
	sumed during use and no classic waste of the substan	ce is generate	ed. [ETW5]
Conditions and meas	sures related to external recovery of waste		
This substance is cons	sumed during use and no classic waste of the substan-	ce is generate	ed. [ERW3]
Section 3 Exposure E	Estimation		
3.1. Health			
The ECETOC TRA too G21.	ol has been used to estimate workplace exposures u	unless otherw	ise indicated.
3.2. Environment			
The Hydrocarbon Blo PETRORISK model. [E	ock Method has been used to calculate environn EE2]	nental expos	ure with the
Section 4 Guidance to	o check compliance with the Exposure Scenario		
4.1. Health			
Measures/Operational Management Measure managed to at least eq for dermal irritant effe established for other h characterisation. G37.	are not expected to exceed the DN(M)EL whe Conditions outlined in Section 2 are implemented as/Operational Conditions are adopted, then users should be used to be uivalent levels. G23. Available hazard data do not enable to be used. G32. Available hazard data do not support the nealth effects. G36. Risk Management Measures are	l. G22. When nould ensure ble the derivat e need for a	re other Risk that risks are ion of a DNEL DNEL to be
4.2. Environment			
scaling may be necess Required removal effic alone or in combination technologies, either alo are provided in SpERC	assumed operating conditions which may not be applicary to define appropriate site-specific risk management iency for wastewater can be achieved using onsite/off n. [DSU2] Required removal efficiency for air can be a cone or in combination. [DSU3] Further details on scaling factsheet (http://cefic.org/en/reach-for-industries-librateterisation Ratio for Air Emissions RCRair	nt measures. site technolog chieved using ng and control	[DSU1] gies, either onsite technologies
	terisation Ratio for Wastewater Emissions RCRwater	0,9090909	
WANTIUM NISK CHAIAC	ACTION INCIDE TO AN ASIGNATED FINISSIONS INCIDENTALED	0,9090909	