

XENUM - In&Out cleaner PETROL

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 - Product identifier

Trade name/designation XENUM - In&Out cleaner PETROL
Chemical name
Product-type Mixture

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

Relevant identified uses - Fuel and fuel additive

Uses advised against - Do not use for medical-clinical purposes.
- Do not use for products which come into contact with the food stuffs.

1.3 - Details of the supplier of the safety data sheet

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Vluchtenburgstraat 9
2630 Aartselaar Belgium
Telephone : +32(0)3 846 48 03
XENUM HQ: +32(0)3 846 48 03 info@xenum.com

1.4 - Emergency telephone number

BelgiumPoison Centre. Tel: (+32) 070 245 245 or (+32) 02 264 96 30

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Irrit. 2	Skin corrosion/irritation, Category 2
Carc. 2	Carcinogenicity, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Flam. Liq. 2	Flammable liquids, Category 2

2.2 - Label elements

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

Contains: (CAS No.: 91-20-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H351	Suspected of causing cancer

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H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P102	Keep out of reach of children
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 clothing
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P501	Dispose of contents/container to an accredited treatment center
EUH-phrases	: None

2.3 - Other hazards

PBT-substance. - No information available.

vPvB-substance. - No information available.

Other hazards which do not result in classification - No information available.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
tert-butyl methyl ether	CAS No. : 1634-04-4 Index No. : 603-181-00-X EC No. : 216-653-1 REACH No. : 01-2119452786-27	50 - 70	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315	
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	CAS No. : 64742-94-5 Index No. : 649-424-00-3 EC No. : 265-198-5 REACH No. : 01-2119463588-24	3 - 6	Aquatic Chronic 2 - H411 Asp. Tox. 1 - H304 STOT SE 3 (H336) - H336	
	CAS No. : 91-20-3 Index No. : 601-052-00-2 EC No. : 202-049-5	1 - 2	Acute Tox. 4 Oral - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Carc. 2 - H351	
Ferrocene	CAS No. : 102-54-5 Index No. : EC No. : 203-039-3	0 - 0,3	Acute Tox. 4 Inhalation - H332 Acute Tox. 4 Oral - H302 Aquatic Chronic 1 - H410 Flam. Sol. 1 - H228 Repr. 1A (H360FD) - H360FD STOT RE 2 - H373	

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - No special measures are necessary.
- Provide fresh air.

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Following skin contact - After contact with skin, wash immediately with plenty of water and soap.
- In case of skin irritation, consult a physician.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

After ingestion - Rinse mouth thoroughly with water.
- Do NOT induce vomiting.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - Causes skin irritation.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media - ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - High power water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - No information available.

Hazardous decomposition products - No information available.

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.

For emergency responders - No information available.

6.2 - Environmental precautions

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- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up - Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols
- Vapours can form explosive mixtures with air.
- When using do not smoke.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only in well-ventilated areas.

Advices on general occupational hygiene - No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Flammable liquids
- Keep container tightly closed and in a well-ventilated place.
- Do not store together with: Combustible substance
- Protect against: Heat

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls - No information available.

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Individual protection measures, such as personal protective equipment - Suitable protective clothing: lab coat



- Tested protective gloves must be worn



- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Barrier creams are not substitutes for body protection.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	dark brown	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		55 °C < V < 78 °C	
Flash point		< -18 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		1,6 % Vol.	
Upper explosion limit		15,1 % Vol.	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		0,8 kg/l < V < 0,9 kg/l	
Solubility (Water)		insoluble	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

9.2 - Other information

VOC content	No data available
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Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- In case of warming: Ignition hazard

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No information available.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Not classified

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

tert-butyl methyl ether (1634-04-4)	
LD50 oral (rat)	> 2000 mg/kg
LD50 dermal (rat)	> 2000 mg/kg
LC50 inhalation vapours (rat)	84 mg/l

Skin corrosion/irritation - Skin corrosion/irritation, Category 2 - Causes skin irritation

- Irritating to skin.

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Not classified

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<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Carcinogenicity, Category 2 - Suspected of causing cancer
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

SECTION 12: Ecological information

12.1 - Toxicity

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

tert-butyl methyl ether (1634-04-4)

LC50 96 hr fish	672 mg/l
ErC50 algae	491 mg/l

- Harmful to aquatic life with long lasting effects.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- No information available.

- No information available.

12.6 - Other adverse effects

- No information available.

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SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- No information available.

SECTION 14: Transport information

14.1 - UN number

<u>UN number (ADR)</u>	:	UN1993
<u>UN number (IMDG)</u>	:	UN1993

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa) 640C (tert-butyl methyl ether, ethanol)
<u>UN proper shipping name (IMDG)</u>	:	FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa) 640C (tert-butyl methyl ether, ethanol)

14.3 - Transport hazard class(es)

<u>ADR Transport hazard class(es)</u>	:	3
<u>ADR Classification code:</u>	:	F1
<u>Pictograms</u>		



<u>Transport hazard class(es) (IMDG)</u>	:	3
<u>Pictograms</u>		



14.4 - Packing group

<u>Packing group</u>	:	II
<u>Packing group (IMDG)</u>	:	II

14.5 - Environmental hazards

<u>Environmental hazards</u>	:	No
<u>Marine pollutant</u>	:	No

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	F1
<u>ADR Special provisions</u>	:	274+601+640C
<u>ADR Limited quantity (LQ)</u>	:	1 L
<u>ADR Excepted quantities</u>	:	E2
<u>ADR Packing instructions</u>	:	P001
<u>ADR Special packing provisions</u>	:	
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	T7
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP8 TP28
<u>ADR tank code</u>	:	L1,5BN
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	FL
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	D/E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2, S20
<u>ADR Hazard identification number (Kemler No.)</u>	:	33

IMDG

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	
<u>Packing instructions</u>	:	
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	IBC02
<u>IBC provisions</u>	:	-
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	F-E, S-E
<u>Stowage and handling</u>	:	
<u>Segregation</u>	:	Category B
<u>Properties and observations</u>	:	

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

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Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Description of the amendments
1,03	9/07/2018	
1,02	28/02/2017	Article number, IMDG Chemical Compound
1,01	23/02/2017	IMDG- Code
1	6/07/2016	

Texts of the regulatory sentences

Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard - Category 1
Carc. 2	Carcinogenicity, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Sol. 1	Flammable solid. - Category 1
H225	Highly flammable liquid and vapour
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H360FD(U)	May damage fertility. May damage the unborn child
H373	May cause damage to organs or state all organs affected, if known through prolonged or repeated exposure - state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Repr. 1A (H360FD)	Reproductive toxicity - Category 1A (H360FD)
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	STOT-repeated exposure - Category 2
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

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