



MAROIL S.R.L.

Revision nr. 1

Dated 09/05/2024

First compilation

Printed on 10/07/2024

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Top Gasoline + Hybrid

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: M 118
Product name: Top Gasoline + Hybrid
UFI: J4A0-204C-1000-4S5V

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

Intended use: Petrol additive

1.3. Details of the supplier of the safety data sheet

Name: MAROIL S.R.L.
Full address: LOC. PONTE ALLA CILIEGIA
District and Country: 55011 MARGINONE ALTOPASCIO (LU)
ITALIA
Tel. 0583/28731
Fax 0583/286542

e-mail address of the competent person responsible for the Safety Data Sheet

msds@bardahl.it

1.4. Emergency telephone number

For urgent inquiries refer to

Numeri telefonici dei principali Centri Antiveleni italiani (attivi 24/24 ore)
Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca` Granda - Milano)
Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.



Top Gasoline + Hybrid

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

- H351** Suspected of causing cancer.
- H304** May be fatal if swallowed and enters airways.
- H411** Toxic to aquatic life with long lasting effects.
- EUH066** Repeated exposure may cause skin dryness or cracking.
- EUH208** Contains: maleic anhydride
May produce an allergic reaction.

Precautionary statements:

- P501** Dispose of contents / container in accordance with national regulations
- P102** Keep out of reach of children.
- P101** If medical advice is needed, have product container or label at hand.
- P331** Do NOT induce vomiting.
- P280** Wear protective gloves/ protective clothing / eye protection / face protection.
- P301+P310** IF SWALLOWED: immediately call a POISON CENTER or doctor.

Contains: Naphthalene
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Icrocarbons, C10, aromatic,> 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

2.3. Other hazards



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On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		
INDEX -	$74 \leq x < 78$	Asp. Tox. 1 H304, EUH066
EC 926-141-6		
CAS -		
REACH Reg. 01-2119456620-43		
Icrocarbons, C10, aromatic,> 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic		
INDEX -	$7 \leq x < 8$	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC 919-284-0		
CAS -		
REACH Reg. 01-2119463588-24		
polyether amine		
INDEX -	$2 \leq x < 2,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 2 H411
EC 817-485-7		
CAS 177591-14-9		
Naphthalene		
INDEX 601-052-00-2	$1,5 \leq x < 2$	Carc. 2 H351, Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 LD50 Oral: 490 mg/kg
EC 202-049-5		
CAS 91-20-3		
KEROSINE (PETROLEUM), STRAIGHT RUN KEROSENE		
INDEX 649-404-00-4	$1,5 \leq x < 2$	Flam. Liq. 3 H226, Asp. Tox. 1 H304
EC 232-366-4		
CAS 8008-20-6		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics		
INDEX -	$1,5 \leq x < 2$	Asp. Tox. 1 H304, EUH066
EC 918-481-9		
CAS -		
REACH Reg. 01-2119457273-39		
2,6-di-tert-butylphenol		
INDEX -	$0,6 \leq x < 0,7$	Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 204-884-0		



Top Gasoline + Hybrid

CAS 128-39-2

REACH Reg. 01-2119490822-33

1,2,4-trimethylbenzene

INDEX 601-043-00-3 $0,45 \leq x < 0,5$ Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 2 H411
ATE Inhalation vapours: 11 mg/l, ATE Inhalation mists/powders: 1,5 mg/l

EC 202-436-9

CAS 95-63-6

2-ethylhexan-1-ol

INDEX - $0,3 \leq x < 0,35$ Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
ATE Inhalation vapours: 11 mg/l

EC 203-234-3

CAS 104-76-7

REACH Reg. 01-2119487289-20

1,2,4-TRIMETHYLBENZENE

INDEX 601-043-00-3 $0 < x < 0,05$ Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 2 H411
ATE Inhalation vapours: 11 mg/l, ATE Inhalation mists/powders: 1,5 mg/l

EC 202-436-9

CAS 95-63-6

1,3,5-TRIMETHYLBENZENE

INDEX 601-025-00-5 $0 < x < 0,05$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 2 H411
STOT SE 3 H335: $\geq 25\%$

EC 203-604-4

CAS 108-67-8

2-ethylhexan-1-ol

INDEX - $0 < x < 0,05$ Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
ATE Inhalation vapours: 11 mg/l, ATE Inhalation mists/powders: 1,5 mg/l

EC 203-234-3

CAS 104-76-7

XYLENE (MIXTURE OF ISOMERS)

INDEX 601-022-00-9 $0 < x < 0,05$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C
ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

EC 215-535-7

CAS 1330-20-7

1,2,3-trimethylbenzene

INDEX - $0 < x < 0,05$ Flam. Liq. 3 H226

EC 208-394-8

CAS 526-73-8

CUMENE

INDEX 601-024-00-X $0 < x < 0,05$ Flam. Liq. 3 H226, Carc. 2 H351, Asp. Tox. 1 H304, STOT SE 3 H335, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: C

EC 202-704-5

CAS 98-82-8

maleic anhydride

INDEX 607-096-00-9 $0 < x < 0,001$ Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 H318, Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071
Skin Sens. 1A H317: $\geq 0,001\%$

EC 203-571-6

CAS 108-31-6

ATE Oral: 500 mg/kg

REACH Reg. 01-2119472428-31

**Top Gasoline + Hybrid**

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF exposed or concerned: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

5.3. Advice for firefighters



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GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:



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BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavahetuse nõuded ning töökesskonna keemiliste ohutegurite piinormid [RT I, 21.12.2022, 14]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3
			ppm	
OEL	EU	200		SKIN

Icrocarbons, C10, aromatic,> 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3
			ppm	
OEL	EU	151		

Health - Derived no-effect level - DNEL / DMEL

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Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				32 mg/m3				151 mg/m3
Skin				7,5 mg/kg bw/d				12,5 mg/kg bw/d

Naphthalene

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0024	mg/l
Normal value in marine water	0,00024	mg/l
Normal value for fresh water sediment	0,0672	mg/kg/d
Normal value for marine water sediment	0,0672	mg/kg/d
Normal value of STP microorganisms	2,9	mg/l
Normal value for the terrestrial compartment	0,0533	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							25 mg/m3	25 mg/m3
Skin								3,57 mg/kg bw/d

KEROSINE (PETROLEUM), STRAIGHT RUN KEROSENE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP		200	SKIN
NDS/NDSch	POL	100	300	
TLV-ACGIH		200		SKIN

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLEP	ITA	200		

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				18,75 mg/kg bw/d				

2,6-di-tert-butylphenol

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l

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Normal value for fresh water sediment	0,317	mg/kg
Normal value for marine water sediment	0,032	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,697	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				6,75 mg/kg				
Inhalation				20,9 mg/m3				70,61 mg/m3
Skin				6,75 mg/kg				11,25 mg/kg

1,2,4-trimethylbenzene**Threshold Limit Value**

Type	Country	TWA/8h	Chronic local	STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
VLEP	ITA	100	20		
OEL	EU	100	20		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,12	mg/l
Normal value in marine water	0,12	mg/l
Normal value for fresh water sediment	13,56	mg/kg
Normal value for marine water sediment	13,56	mg/kg
Normal value of STP microorganisms	2,41	mg/l
Normal value for the terrestrial compartment	2,34	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				15 mg/kg bw/d				
Inhalation	29,4 mg/m3	29,4 mg/m3	29,4 mg/m3	29,4 mg/m3	100 mg/m3	100 mg/m3	100 mg/m3	100 mg/m3
Skin				9512 mg/kg				16171 mg/kg bw/d

2-ethylhexan-1-ol**Threshold Limit Value**

Type	Country	TWA/8h	Chronic local	STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
VLEP	ITA	5,4	1		
OEL	EU	5,4	1		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,017	mg/l
Normal value in marine water	0,002	mg/l
Normal value for fresh water sediment	0,284	mg/kg
Normal value for marine water sediment	0,028	mg/kg
Normal value of STP microorganisms	10	mg/l

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Normal value for the food chain (secondary poisoning)	55	mg/kg						
Normal value for the terrestrial compartment	0,047	mg/kg						
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers		Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,1 mg/kg bw/d				
Inhalation	26,6 mg/m3		26,6 mg/m3	2,3 mg/m3	53,2 mg/m3		53,2 mg/m3	12,8 mg/m3
Skin				11,4 mg/kg bw/d				23 mg/kg bw/d

1,2,4-TRIMETHYLBENZENE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	100	20			
TLV	CZE	100	20	250	50	
AGW	DEU	100	20	200	40	
MAK	DEU	100	20	200	40	
TLV	DNK	100	20			E
VLA	ESP	100	20			
TLV	EST	100	20			
VLEP	FRA	100	20	250	50	
TLV	GRC	125	25			
AK	HUN	100				
GVI/KGVI	HRV	100	20			
VLEP	ITA	100	20			
RV	LVA	100	20			
TGG	NLD	100		200		
VLE	PRT	100	20			
NDS/NDSch	POL	100		170		SKIN
TLV	ROU	100	20			
NGV/KGV	SWE	100	20	170	35	
NPEL	SVK	100	20			
MV	SVN	100	20			
OEL	EU	100	20			
TLV-ACGIH		123	25			

1,3,5-TRIMETHYLBENZENE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	100	20			
TLV	CZE	100	20	250	50	

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AGW	DEU	100	20	200	40	
MAK	DEU	100	20	200	40	
TLV	DNK	100	20			E
VLA	ESP	100	20			
VLEP	FRA	100	20	250	50	
HTP	FIN	100	20			
TLV	GRC	125	25			
AK	HUN	100				
GVI/KGVI	HRV	100	20			
VLEP	ITA	100	20			
RV	LVA	100	20			
TGG	NLD	100		200		
VLE	PRT	100	20			
NDS/NDSch	POL	100		170		SKIN
TLV	ROU	100	20			
NGV/KGV	SWE	100	20	170	35	
NPEL	SVK	100	20			
MV	SVN	100	20	200	40	
OEL	EU	100	20			
TLV-ACGIH		123	25			

2-ethylhexan-1-ol**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	5,4	1			
TLV	CZE	5,4	0,999	11	2035	
TLV	DNK	5,4	1			
VLA	ESP	5,4	1			
TLV	EST	5,4	1			
VLEP	FRA	5,4	1			
HTP	FIN	5,4	1			
TLV	GRC	5,4	1			
AK	HUN	5,4				
VLEP	ITA	5,4	1			
RV	LVA	5,4	1			
NDS/NDSch	POL	5,4		10,8		
TLV	ROU	5,4	1			
ПДК	RUS			10		
NGV/KGV	SWE	5,4	1			
NPEL	SVK	5,4	1			
MV	SVN	5,4	1			

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WEL	GBR	5,4	1
OEL	EU	5,4	1

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,017	mg/l
Normal value in marine water	0,002	mg/l
Normal value for fresh water sediment	0,284	mg/kg
Normal value for marine water sediment	0,028	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,047	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,1 mg/kg bw/d				
Inhalation	26,6 mg/m3		26,6 mg/m3	2,3 mg/m3	53,2 mg/m3		53,2 mg/m3	12,8 mg/m3
Skin				11,4 mg/kg bw/d				23 mg/kg bw/d

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3		ppm
TLV	BGR	221	50	442	100	SKIN
TLV	CZE	200	45,4	400	90,8	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
TLV	DNK	109	25			SKIN E
VLA	ESP	221	50	442	100	SKIN
TLV	EST	200	50	450	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
HTP	FIN	220	50	440	100	SKIN
TLV	GRC	435	100	650	150	
AK	HUN	221		442		SKIN
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
RV	LVA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSch	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
NGV/KGV	SWE	221	50	442	100	SKIN
NPEL	SVK	221	50	442	100	SKIN
MV	SVN	221	50	442	100	SKIN

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WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH			20			

1,2,3-trimethylbenzene**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
VLEP	FRA	100	20	250	50
TGG	NLD	100		200	
OEL	EU	100	20		

CUMENE**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	100	20	250	50 SKIN
TLV	CZE	100	20	250	50 SKIN
AGW	DEU	50	10	200	40 SKIN
TLV	DNK	100	20		SKIN E
VLA	ESP	100	20	250	50 SKIN
TLV	EST	100	20	250	50 SKIN
VLEP	FRA	100	20	250	50 SKIN
HTP	FIN	50	10	250	50 SKIN
TLV	GRC	245	50	370	75
AK	HUN	50		250	SKIN
GVI/KGVI	HRV	50	10	250	50 SKIN
VLEP	ITA	100	20	250	50 SKIN
RV	LVA	100	20	250	50 SKIN
TGG	NLD	100		250	SKIN
VLE	PRT	50	10	250	50 INHAL
VLE	PRT	50	10	250	50 SKIN
NDS/NDSch	POL	50		250	SKIN
TLV	ROU	100	20	250	50 SKIN
NGV/KGV	SWE	100	20	250	50 SKIN
NPEL	SVK	50	10	250	50 SKIN
MV	SVN	100	20	250	50 SKIN
WEL	GBR	125	25	250	50 SKIN
OEL	EU	50	10	250	50 SKIN
TLV-ACGIH		246	50		

maleic anhydride**Threshold Limit Value**



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Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1				
TLV	CZE	1	0,245	2	0,49	
AGW	DEU	0,081	0,02	0,081 (C)	0,02 (C)	
MAK	DEU	0,081	0,02	0,081 (C)	0,02 (C)	C = 0,20 mg/m3
TLV	DNK	0,4	0,1			
VLA	ESP	0,4	0,1			
TLV	EST	1,2	0,3	2,5	0,6	
VLEP	FRA			1		
HTP	FIN	0,41	0,1	0,81 (C)	0,2 (C)	
TLV	GRC	1				
AK	HUN	0,08		0,08		
GVI/KGVI	HRV	0,41	0,1	0,8	0,2	INHAL
GVI/KGVI	HRV	0,41	0,1	0,8	0,2	SKIN
RV	LVA	1				
NDS/NDSch	POL	0,5		1		SKIN
TLV	ROU	1	0,25	3	0,75	
NGV/KGV	SWE	0,2	0,05	0,4	0,1	
NPEL	SVK	0,41	0,1			
MV	SVN	0,41	0,1	0,41	0,1	
WEL	GBR	1		3		
TLV-ACGIH		0,01	0,0025			

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,1 mg/kg bw/d		0,06 mg/kg bw/d				
Inhalation			0,08 mg/m3	0,05 mg/m3	0,8 mg/m3	0,8 mg/m3	0,32 mg/m3	0,19 mg/m3
Skin		0,1 mg/kg bw/d		0,1 mg/kg bw/d		0,2 mg/kg bw/d		0,2 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

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When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	yellowish	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	82,5 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	

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Kinematic viscosity	2,6 mm ² /sec (40°C)
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	0,83 g/cm ³
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Viscosita a 40°C 2,6 cSt

SECTION 10. Stability and reactivity**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available



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SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

LD50 (Dermal): > 5000 mg/kg Coniglio

LD50 (Oral): > 5000 mg/kg Ratto

LC50 (Inhalation vapours): > 5000 mg/m3 Ratto

Icrocarbons, C10, aromatic, > 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic

LD50 (Dermal): 2000 mg/kg Coniglio

LD50 (Oral): 5000 mg/kg Ratto

LC50 (Inhalation vapours): > 590 mg/m3/4h Ratto

Naphthalene

LD50 (Dermal): > 2000 mg/kg Coniglio

LD50 (Oral): 490 mg/kg Rat

LC50 (Inhalation vapours): > 0,4 mg/l/4h Equivalente o similare a OECD Guideline 403 - Ratto

Kerosine (PETROLEUM), STRAIGHT RUN Kerosine

LD50 (Oral): > 5000 mg/kg Rat

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

LD50 (Dermal): > 2000 mg/kg Coniglio - Equivalente o similare a OECD Guideline 402

LD50 (Oral): > 15000 mg/kg Equivalente o similare a OECD Guideline 401 - rat

LC50 (Inhalation vapours): > 4951 mg/l/4h Equivalente o similare a OECD Guideline 403 - Ratto

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2,6-di-tert-butylphenol LD50 (Oral):	> 5000 mg/kg OECD Guideline 401 - Ratto
1,2,4-trimethylbenzene LD50 (Oral):	6000 mg/kg Ratto - Equivalente o similare a EU Method B.1
2-ethylhexan-1-ol LD50 (Oral): LC50 (Inhalation vapours):	2047 mg/kg Ratto - Equivalente o similare a OECD Guideline 401 > 0,89 mg/l/4h Ratto - Equivalente o similare a OECD Guideline 403
1,2,4-TRIMETHYLBENZENE LD50 (Oral):	6000 mg/kg bw Ratto - Equivalente o similare a EU Method B.1
1,3,5-TRIMETHYLBENZENE LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Rat 6000 mg/kg Rat
2-ethylhexan-1-ol LD50 (Oral):	2047 mg/kg bw Ratto - Equivalente o similare a OECD Guideline 401
XYLENE (MIXTURE OF ISOMERS) LD50 (Dermal): ATE (Dermal):	4350 mg/kg Rabbit 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral): LC50 (Inhalation vapours):	3523 mg/kg Rat 26 mg/l/4h Rat
CUMENE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 3160 mg/kg Rabbit 1400 mg/kg Rat > 17,6 mg/l/6h Rat
maleic anhydride LD50 (Dermal): LD50 (Oral):	2620 mg/kg Coniglio 400 mg/kg Ratto

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

maleic anhydride

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

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Suspected of causing cancer

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

1,2,4-trimethylbenzene

LC50 - for Fish

7,72 mg/l/96h Pimephales promelas

EC50 - for Crustacea

3,6 mg/l/48h Dafnia - Equivalente o similare a OECD Guideline 202

Hydrocarbons, C10-C13, n-alkanes,
isoalkanes, cyclics, <2% aromatics

EC50 - for Crustacea

> 1000 mg/l/48h Daphnia Magna

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h Pseudokirchneriella subcapitata

2,6-di-tert-butylphenol

LC50 - for Fish

1,4 mg/l/96h Equivalente o similare a OECD Guideline 204 - Pimephales promelas

EC50 - for Crustacea

0,45 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

3,6 mg/l/72h Selenastrum capricornutum

Chronic NOEC for Crustacea

0,035 mg/l/21d EU Method C.20 - Daphnia magna

2-ethylhexan-1-ol

LC50 - for Fish

17,1 mg/l/96h EU Method C.1 - Leuciscus idus melanotus

EC50 - for Crustacea

39 mg/l/48h Daphnia magna - EU Method C.2



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EC50 - for Algae / Aquatic Plants 16,6 mg/l/72h Scenedesmus subspicatus - EU Method C.3

Icrocarbons, C10, aromatic, > 1%
naphthalene [Solvent naphtha (petroleum),
heavy aromatic

LC50 - for Fish > 2 mg/l/96h Pesce

EC50 - for Crustacea > 3 mg/l/48h Daphnia

EC50 - for Algae / Aquatic Plants > 1 mg/l/72h Alghe

Naphthalene

LC50 - for Fish 1,6 mg/l/96h Equivalente o similare a OECD Guideline 203 - Oncorhynchus mykiss

EC50 - for Crustacea 2,16 mg/l/48h Equivalente o similare a OECD Guideline 202 - Daphnia magna

Chronic NOEC for Fish 1,5 mg/l/60d Mozambique tilapia

Chronic NOEC for Crustacea 0,5 mg/l/3w Fiddler crab

KEROSINE (PETROLEUM), STRAIGHT
RUN KEROSINE

LC50 - for Fish 25 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea 1,4 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 1,5 mg/l/72h Pseudokirchnerella subcapitata

1,3,5-TRIMETHYLBENZENE

LC50 - for Fish 12,52 mg/l/96h Carassius auratus

EC50 - for Crustacea 6 mg/l/48h Daphnia magna

2-ethylhexan-1-ol

LC50 - for Fish 28,2 mg/l/96h Pimephales promelas

EC50 - for Crustacea 39 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 16,6 mg/l/72h Scenedesmus quadricauda

12.2. Persistence and degradability

KEROSINE (PETROLEUM), STRAIGHT RUN KEROSINE

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharging it into the environment.

1,2,4-trimethylbenzene

Degradability: information not available

Hydrocarbons, C10-C13, n-alkanes,
isoalkanes, cyclics, <2% aromatics

Rapidly degradable

OECD TG 301 F, 80 %, 28 d

2,6-di-tert-butylphenol

NOT rapidly degradable

OECD TG 301 B, 5 %, 28 d

2-ethylhexan-1-ol

Rapidly degradable

OECD TG 302 B, 95 %, 5 d

Icrocarbons, C10, aromatic, > 1%
naphthalene [Solvent naphtha (petroleum),



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heavy aromatic
Entirely degradable

Naphthalene

Rapidly degradable
maleic anhydride

Solubility in water > 10000 mg/l

1,2,4-TRIMETHYLBENZENE

Solubility in water 0,1 - 100 mg/l

Degradability: information not available

KEROSINE (PETROLEUM), STRAIGHT
RUN KEROSINE

Rapidly degradable

1,3,5-TRIMETHYLBENZENE

Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable

CUMENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable
2-ethylhexan-1-ol

Rapidly degradable

OECD 301C

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

1,2,4-trimethylbenzene

Partition coefficient: n-octanol/water 3,63 Log Kow Mediamente calcolato

BCF 243

2,6-di-tert-butylphenol

Partition coefficient: n-octanol/water 4,5 Log Kow Misurato

2-ethylhexan-1-ol

Partition coefficient: n-octanol/water 2,9 Log Kow Misurato

BCF 25,35 Mediante Calcolo

1,2,4-TRIMETHYLBENZENE

Partition coefficient: n-octanol/water 3,65

BCF 243

1,3,5-TRIMETHYLBENZENE

Partition coefficient: n-octanol/water 3,42

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Partition coefficient: n-octanol/water 3,55
BCF 94,69

2-ethylhexan-1-ol

Partition coefficient: n-octanol/water 2,9 Log Kow (Misurato)
BCF 25,35 (mediante calcolo)

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12
BCF 25,9

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: UN 3082



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ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Icrocarbons, C10, aromatic,> 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic; polyether amine)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Icrocarbons, C10, aromatic,> 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic; polyether amine)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Icrocarbons, C10, aromatic,> 1% naphthalene [Solvent naphtha (petroleum), heavy aromatic; polyether amine)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 lt	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 lt	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450	Packaging instructions:



Top Gasoline + Hybrid

Special provision:

L
A97, A158,
A197, A215

964

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**Top Gasoline + Hybrid****15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

LEGEND:

**Top Gasoline + Hybrid**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
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 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
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- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.