

SAFETY DATA SHEET
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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cod.97010-97020
Revision: 4.1/ EN

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Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Packaging materials:

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

xylene - CAS: 1330-20-7 (mixture of isomers): risk analysis led by Xilene also for EC 905-588-0

- OEL Type: EPY_TLV-ACGIH - TWA: 434 mg/m³, 100 ppm - STEL: 651 mg/m³, 150 ppm

- OEL Type: EPY_OEL - TWA: 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm

- OEL Type: EPY_TLV - TWA: 50 mg/m³ - STEL: 100 mg/m³

- OEL Type: EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm -

Notes: Skin

- OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

ethylbenzene Threshold Limit Value

Type VLE Country ITA T A/8h 442 mg/m³ 100ppm STEL/15min 884 mg/m³ 200ppm

Remarks / Observations S IN

DNEL Exposure Limit Values

xylene - CAS: 1330-20-7 (mixture of isomers): risk analysis led by Xilene also for EC 905-588-0

Consumer: 260 mg/m³ - Esposizione: Inalazione Umana - Frequenza: Breve termine, effetti sistemici (relative hazard potential <1: 49.9/260=0.19)

Consumer: 108 mg/kg bw/d - Esposizione: Cutanea Umana - Frequenza: Lungo termine, effetti sistemici

Consumer: 65.3 mg/m³ (xilene) - Esposizione: Inalazione Umana - Frequenza: Lungo termine, effetti sistemici (relative hazard potential <1: 49.9/65.3=0.76)

Consumer: 14.8 mg/m³ (etilbenzene) - Esposizione: Inalazione Umana - Frequenza: Lungo termine, effetti sistemici (relative hazard potential: 49.9/14.8=3.37) Consumatore: 1.6 mg/kg bw/d - Esposizione: Inalazione Umana - Frequenza: Lungo termine, effetti sistemici

orker professional: 221 mg/m³ - Esposizione: Inalazione Umana - Frequenza: Breve termine, effetti sistemici (relative hazard potential <1: 49.9/221=0.23)

orker professional: 180 mg/kg bw/d - Esposizione: Cutanea Umana - Frequenza: Lungo termine, effetti sistemici

orker professional 77 mg/m³ (etilbenzene) - Esposizione: Inalazione Umana - Frequenza: Lungo termine, effetti sistemici (relative hazard potential <1: 49.9/77=0.65)

PNEC Exposure Limit Values

xylene - CAS: 1330-20-7 (mixture of isomers): risk analysis led by Xilene also for EC 905-588-0

Target: Acqua dolce - Valore: 0.32 mg/l

Target: Acqua di mare - Valore: 0.32 mg/l

Target: Microorganismi nel trattamento delle acque reflue - Valore: 6.58 mg/kg

Target: Rilasci saltuari - Valore: 0.32 mg/l

Target: Sedimenti d'acqua dolce - Valore: 12.46 mg/kg

Target: Sedimenti d'acqua di mare - Valore: 12.46 mg/kg

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8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

Not needed for normal use

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid *	--	* content in the marker
Colour:	Various	--	--
Odour:	Solvent	--	aromatic, characteristic
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flam. Liq. 2, H225	--	+15 °C
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	Mixture is not self-reactive
pH:	N.A.	--	solvent based mixture
Kinematic viscosity:	> 20,5 mm ² /s (+40 °C)	--	Not H304 classified
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	product is a mixture
Vapour pressure:	N.A.	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	product is not a solid

9.2. Other information

VOC (Direttiva 2010/75/CE) : 48,00 % - 494,40 g/litro.
VOC (carbonio volatile) : 43,40 % - 447,04 g/litro.

SECTION 10: Stability and reactivity

10.1. Reactivity

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- Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Stable under normal conditions. Avoid accumulating electrostatic charge.
Vapours can form explosive mixtures with air.
- 10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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a) acute toxicity

LC50 (Inalazione - vapori) della miscela (metodo di calcolo): ATE mix > 20 mg/l (41,49 mg/l: non classificato: Inhal. Acute Tox. 4 H332)

LC50 (Inalazione - nebbie / polveri) della miscela: Non classificato (nessun componente rilevante).

LD50 (Orale) della miscela: Non classificato (nessun componente rilevante).

LD50 (Cutanea) della miscela: >2000 mg/kg (Non classificato Dermal Acute Tox. 4 H312)

XILENE (MISCELA DI ISOMERI) caratterizzazione del rischio guidata da xilene anche per EC 905-588-0

LD50 (Orale): 3523 mg/kg Rat

LD50 (Cutanea): 4350 mg/kg Rabbit

LC50 (Inalazione): 26 mg/l/4h Rat

ETILBENZENE

LD50 (Orale): 3500 mg/kg Rat

LD50 (Cutanea): 15354 mg/kg Rabbit

LC50 (Inalazione): 17,2 mg/l/4h Rat

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315 c)

serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319 d)

respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H335

i) STOT-repeated exposure

The product is classified: STOT RE 2 H373

j) aspiration hazard

Not classified (viscosity > 20,5mm²/s at +40 °C)

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:

xylene - CAS: 1330-20-7 a)

acute toxicity:

Test: LD50 - Route: EPY_DERMAL 4350 - Notes: Rabbit Test:

LC50 - Route: EPY_INHALATION 26 - Notes: Rat Test: LD50 -

Route: EPY_ORAL 3523 - Notes: Rat

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

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SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
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Not classified for environmental hazards
Based on available data, the classification criteria are not met 12.2.
- Persistence and degradability
XILENE (MISCELA DI ISOMERI)
Solubilità in acqua. 100 - 1000 mg/l
Biodegradabilità: Dato non Disponibile.
ETILBENZENE
Solubilità in acqua. 1000 - 10000 mg/l
Rapidamente Biodegradabile.
- 12.3. Bioaccumulative potential
XILENE (MISCELA DI ISOMERI)
Coefficiente di ripartizione: n-ottanolo/acqua. 3,12
ETILBENZENE
Coefficiente di ripartizione: n-ottanolo/acqua. 3,6
- 12.4. Mobility in soil
XILENE (MISCELA DI ISOMERI)
Coefficiente di ripartizione: suolo/acqua. 2,73
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



- 14.1. UN number or ID number
ADR-UN Number: 1263
IATA-UN Number: 1263
IMDG-UN Number: 1263
- 14.2. UN proper shipping name
ADR-Shipping Name: PITTURE
IATA-Shipping Name: PITTURE
IMDG-Shipping Name: PITTURE
- 14.3. Transport hazard class(es)
ADR-Class: 3
ADR - Numero di identificazione del pericolo: 33
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3
- 14.4. Packing group
ADR-Packing Group: II
IATA-Packing group: II
IMDG-Packing group: II

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- 14.5. Environmental hazards
ADR-Inquinante ambientale: No
IMDG-Marine pollutant: No
IMDG-EMS: F-E , S-E
- 14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 163 367 640C 650
ADR-Categoria di trasporto (Codice di restrizione in galleria): 2 (D/E)
IATA-Passenger Aircraft: 353
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 364
IATA-S.P.: A3 A72 A192
IATA-ERG: 3L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category B
IMDG-Segregation: -
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1
Product belongs to category: P5c

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15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method

METODO DI CALCOLO

Per Sezione 8: Relative hazard potential: max% / DNEL mix

Per Sezione 11: $100 / ATE_{mix} = \sum \text{conc.ingr.} / ATE_{ingr}$

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This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.