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SAFETY DATA SHEET

According to Regulations (EC) n.1907/2006, n. (EU) 2015/830

Safety Data Sheet
according to Regulations (EC) No. 1907/2006, No. (EU) 2015/830
Name : SOLVENTE XAB 91
Code: 381310
Revision date : 29/05/2017 Version : 1.1.0
Print date : 29/05/2017 Revision : 1.0.5
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking
1.1 Product identifier
SOLVENTE XAB 91 (381310; 381301Z; SOLV06913120; SOLV06913121; SOLV06913150; SOLV0691315T)
1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
See exposure scenario(s) in the attachment to this safety data sheet for all uses
Uses advised against
This product is not recommended for any industrial, professional or consumer use other than identified in table on the front page
of the annex.
1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor)
BRENNA S.R.L.
Via Arno, 48
20038 SEREGNO (MI) Italia
tel. 0362239819 fax 0362244726
Information contact : brennachim@gmail.com
1.4 Emergency telephone number
Centro Antiveleni di Milano +39 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano)
Centro Antiveleni di Pavia +39 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Bergamo +39 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze +39 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma +39 06 3054343 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli +39 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.
Acute Tox. 4 ; H312 - Acute toxicity (dermal) : Category 4 ; Harmful in contact with skin.
Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.
Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.
STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.
STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated
exposure.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms

Flame (GHS02) E Health hazard (GHS08) E Exclamation mark (GHS07)
Signal word
Danger
Hazard components for labelling
XYLENE ; CAS No. : 1330-20-7
Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%)
Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance to the local regulations.

2.3 Other hazards
None

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Hazardous ingredients
Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%) ;
REACH registration No. : 01-
2119555267-33 ; EC No. : 905-562-9
Weight fraction : K 0 - < 90 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4
; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335
XYLENE ; REACH registration No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7
Weight fraction : K 0 - < 90 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4
; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335
n-butyl acetate ; REACH registration No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4
Weight fraction : K 10 - < 15 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336
Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures
Consult a physician immediately.
4.1 Description of first aid measures
Following inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present,
the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if
respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person
providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If
unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing
such as a collar, tie, belt or waistband.
In case of skin contact
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with
water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a
poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
After eye contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact
lenses. Continue to rinse for at least 10 minutes. Get medical attention.
After ingestion
Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at
rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small
quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed.
Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does
not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get
medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
4.2 Most important symptoms and effects, both acute and delayed
Headache, dizziness, drowsiness, nausea and other central nervous system effects. Itching, pain, redness,swelling of the skin.
Difficulty breathing.
4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SECTION 5: Firefighting measures
The product is flammable, pay close attention. The product is not explosive, but formation of explosive vapour/air mixtures is
possible. Avoid formation of vapours.
5.1 Extinguishing media
Suitable extinguishing media
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media
Water jet.
5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
Possible formation of carbon oxides. aromatic hydrocarbons
5.3 Advice for firefighters
In case of fire do not breathe fumes When extinguishing fires, use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Wear protection gloves, clothes, glasses, boots and respiratory apparatus. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions
Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with
local regulations.
6.3 Methods and material for containment and cleaning up
Quickly collect the product wearing mask and protective clothing. Llimit and adsorb the spill with inert adsorbing material (for
example sand, vermiculite). Put the resultant material in adeguate packiaging and send to an authorized plant for the disposal.
Collect the spread product, and then wash with water area and materials. Recove the water used and send to an authorized plant
for the disposal.
6.4 Reference to other sections
Reference to other sections Personal protection equipment: see section 8 Disposal considerations: see section 13
SECTION 7: Handling and storage
For transportation, storage and handling use only proper materials.
7.1 Precautions for safe handling
Use with good manufacturing practice and with correct protection devices Don't eat, drink or smoke on the production place. Use
precautions in the proiduct use. Avoid the contact and vapours and/or dust inhalation. See the MSDS paragraph 8.
7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Store in a cool, dry place. Avoid exposure to direct sunlight. Keep away from fire, sparks and ignition sources Make sure that
ventilation is adequate.
Hints on joint storage
Keep away from materials which can lead to reaction. See par. 10. Store the foodstuffs separately.
Storage class : 3
Storage class (TRGS 510) : 3
7.3 Specific end use(s)
See section 1.2

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and
good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL
(=Occupational Exposure Limit) , suitable respiratory protection must be worn.
Occupational exposure limit values
XYLENE ; CAS No. : 1330-20-7
Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m3
Remark : H
Version : 08/06/2000
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m3
Remark : H
Version : 08/06/2000
DNEL/DMEL and PNEC values
DNEL/DMEL
Limit value type : DNEL Consumer (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Inhalation

Exposure frequency : Short-term (acute)
Limit value : 174 mg/m3
Limit value type : DNEL Consumer (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 108 mg/kg
Limit value type : DNEL Consumer (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 14,8 mg/m3
Limit value type : DNEL Consumer (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 108 mg/kg
Limit value type : DNEL Consumer (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 14,8 mg/m3
Limit value type : DNEL Consumer (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 1,6 mg/kg
Limit value type : DNEL Consumer (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 1,6 mg/kg
Limit value type : DNEL worker (local) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/kg
Limit value type : DNEL worker (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/m3
Limit value type : DNEL worker (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL worker (systemic) (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene
and p-xylene, (Benzene < 0,01%))
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m3
Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m3

Limit value type : DNEL Consumer (local) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 102,34 mg/m3
Limit value type : DNEL Consumer (local) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 859,7 mg/m3
Limit value type : DNEL Consumer (systemic) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 859,7 mg/m3
Limit value type : DNEL Consumer (systemic) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 102,34 mg/m3
Limit value type : DNEL worker (local) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 960 mg/m3
Limit value type : DNEL worker (local) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 480 mg/m3
Limit value type : DNEL worker (systemic) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 960 mg/m3
Limit value type : DNEL worker (systemic) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 480 mg/m3
PNEC
Limit value type : PNEC aquatic, freshwater (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Limit value : 0,32 mg/l
Limit value type : PNEC aquatic, freshwater (XYLENE ; CAS No. : 1330-20-7)
Limit value : 0,32 mg/l
Limit value type : PNEC aquatic, intermittent release (Reaction mass of ethylbenzene and m-xylene and p-xylene,
m-xylene and p-xylene, (Benzene < 0,01%))
Limit value : 0,32 mg/l
Limit value type : PNEC aquatic, intermittent release (XYLENE ; CAS No. : 1330-20-7)
Limit value : 0,32 mg/l
Limit value type : PNEC aquatic, marine water (XYLENE ; CAS No. : 1330-20-7)
Limit value : 0,32 mg/l
Limit value type : PNEC aquatic, marine water (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene and p-xylene, (Benzene < 0,01%))
Limit value : 0,32 mg/l
Limit value type : PNEC sediment, freshwater (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Limit value : 12,46 mg/kg
Limit value type : PNEC sediment, freshwater (XYLENE ; CAS No. : 1330-20-7)
Limit value : 12,46 mg/kg
Limit value type : PNEC sediment, marine water (Reaction mass of ethylbenzene and m-xylene and p-xylene, mxylene
and p-xylene, (Benzene < 0,01%))
Limit value : 12,46 mg/kg
Limit value type : PNEC sediment, marine water (XYLENE ; CAS No. : 1330-20-7)
Limit value : 12,46 mg/kg

Limit value type : PNEC soil (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene,
(Benzene < 0,01%))
Limit value : 2,31 mg/kg
Limit value type : PNEC soil (XYLENE ; CAS No. : 1330-20-7)
Limit value : 2,31 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (Reaction mass of ethylbenzene and m-xylene and pxylene,
m-xylene and p-xylene, (Benzene < 0,01%))
Limit value : 6,58 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (XYLENE ; CAS No. : 1330-20-7)
Limit value : 6,58 mg/l
Limit value type : PNEC aquatic, freshwater (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 0,18 mg/l
Limit value type : PNEC aquatic, intermittent release (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 0,36 mg/l
Limit value type : PNEC aquatic, marine water (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 0,01 mg/l
Limit value type : PNEC sediment, freshwater (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 0,98 mg/kg
Limit value type : PNEC sediment, marine water (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 0,09 mg/kg
Limit value type : PNEC soil (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 0,09 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (n-butyl acetate ; CAS No. : 123-86-4)
Limit value : 35,6 mg/l
8.2 Exposure controls
Personal protection equipment
Eye/face protection
Safety glasses with side shields (EN 166).
Suitable eye protection
Use tightly fitting safety glasses.
Skin protection
Hand protection
Wear latex nitrile gloves, EN 374.
Body protection
Workers should wear protective clothing and all parts of the body should be washed after any contact.
Respiratory protection
Suitable respiratory protection apparatus
Use filter type A (contrast vapors of organic compounds) according to EN 141.
General health and safety measures
Do not eat or drink during work - no smoking. Use hand, eyes and respiratory apparatura protection devices. The protection
devices supplier must ensure those devices are suitable for the product managing.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Safety relevant basis data
Aspect liquid
Colour colourless
Odour aromatico
Melting point/melting range : (1013 hPa) -98 - -54 °C
Vapour density ((air = 1)) Data not available
Initial boiling point and boiling range
: (1013 hPa) 125 - 145 °C
Decomposition temperature : No data available
Self flammability No data available
Flash point : 27 °C
Flammability (solid, gas) Data not available
Lower explosion limit : No data available
Upper explosion limit : No data available
Explosive properties Data not available

Vapour pressure (20 °C) > 0,1 hPa
Density : (20 °C) approx. 0,86 g/cm3
Water solubility : (20 °C) trascurabile
pH : not applicable
Log Pow (20 °C) No data available
Viscosity : (20 °C) No data available
Viscosity : (20 °C) No data available
Odour threshold Data not available
Evaporation rate Data not available
Maximum VOC content (EC) : 100 Wt %
Oxidizing properties Data not available
9.2 Other information
None
SECTION 10: Stability and reactivity
10.1 Reactivity
No hazardous reactions when stored and handled properly.
10.2 Chemical stability
Stable under recommended storage and handling conditions(See section 7).
10.3 Possibility of hazardous reactions
No hazardous reactions when stored and handled properly.
10.4 Conditions to avoid
Keep away from heat, not smoke. Keep away from flames.
10.5 Incompatible materials
Keep away from acids and oxidants.
10.6 Hazardous decomposition products
Possible formation of carbon oxides.

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Acute effects
Harmful by skin contact. Harmful if inhaled.
Acute oral toxicity
Parameter : LD50 (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%))
Exposure route : Oral
Species : Mouse
Effective dose : = 5627 mg/kg
Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Oral
Species : mouse (male)
Effective dose : = 5627 mg/kg
Parameter : LD50 (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Oral
Species : Rat (female)
Effective dose : = 10760 mg/kg
Method : OECD 423
Acute dermal toxicity
Parameter : LD50 (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%))
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 ml/kg
Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 ml/kg
Parameter : LD50 (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 14000 mg/kg
Method : OECD 402
Acute inhalation toxicity

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Species : Rat (male)
Effective dose : = 6700 ppm
Exposure time : 4 h
Parameter : LC50 (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%))
Exposure route : Inhalation
Species : Rat (male)
Effective dose : = 6700 ppm
Exposure time : 4 h
Parameter : LC50 (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation

Species : Rat
Effective dose : > 23,4 mg/l
Exposure time : 4 h
Method : OECD 403
Irritant and corrosive effects
Causes skin irritation. Causes serious eye irritation.
Sensitisation
No known sensitizing effect.
Repeated dose toxicity (subacute, subchronic, chronic)
May cause damage to organs through prolonged or repeated exposure.
Subacute oral toxicity
Parameter : NOAEL(C) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Oral
Species : Rat
Effective dose : 250 mg/kg bw/day
Parameter : NOAEL(C) (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and pxylene, (Benzene < 0,01%))
Exposure route : Oral
Species : Rat
Effective dose : 250 mg/kg bw/day
Subacute inhalation toxicity
Parameter : NOAEL(C) (n-butyl acetate ; CAS No. : 123-86-4)
Exposure route : Inhalation
Species : Rat
Effective dose : 750 ppm
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Not known to be mutagenic, carcinogenic or toxic for reproduction.
Reproductive toxicity
Developmental toxicity/teratogenicity
One generation reproduction toxicity test
Parameter : One generation reproduction toxicity test (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Rat
Effective dose : >= 500 ppm
Parameter : NOAEL(C) (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and pxylene, (Benzene < 0,01%))
Exposure route : Rat
Effective dose : >= 500 ppm
STOT-single exposure
May cause respiratory irritation.
Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information
Use with good manufacturing practice. Avoid the release in the environment
VOC: Yes
12.1 Toxicity
Aquatic toxicity
Acute (short-term) fish toxicity
Parameter : LC50 (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%))
Species : Salmo gairdneri
Effective dose : = 2,6 mg/l
Exposure time : 96 h
Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss
Effective dose : = 2,6 mg/l
Exposure time : 96 h
Parameter : LC50 (n-butyl acetate ; CAS No. : 123-86-4)
Species : Pimephales promelas
Effective dose : = 18 mg/l
Exposure time : 96 h
Method : OECD 203
Chronic (long-term) fish toxicity
Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss
Effective dose : > 1,3 mg/l
Exposure time : 56 g
Acute (short-term) daphnia toxicity
Parameter : IC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia magna
Effective dose : = 1 mg/l
Exposure time : 24 h
Parameter : IC50 (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%))
Species : Daphnia magna
Effective dose : = 1 mg/l
Exposure time : 24 h
Parameter : EC50 (n-butyl acetate ; CAS No. : 123-86-4)
Species : Daphnia magna
Effective dose : = 44 mg/l
Exposure time : 48 h
Chronic (long-term) daphnia toxicity
Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia magna
Effective dose : = 1,57 mg/l
Exposure time : 21 g
Acute (short-term) algae toxicity
Parameter : EC0 (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : = 0,44 mg/l
Exposure time : 73 h
Parameter : ErC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : = 4,36 mg/l
Exposure time : 73 h
Parameter : EC10 (Reaction mass of ethylbenzene and m-xylene and p-xylene, m-xylene and p-xylene, (Benzene < 0,01%))
Species : Selenastrum capricornutum
Effective dose : = 1,9 mg/l
Exposure time : 73 h
Parameter : EC50 (n-butyl acetate ; CAS No. : 123-86-4)
Species : Desmodesmus subspicatus
Effective dose : = 674,7 mg/l
Exposure time : 72 h

12.2 Persistence and degradability
Biodegradation
Parameter : Biodegradation
Effective dose : > 70 %
Exposure time : 28 day
Parameter : Biodegradation (n-butyl acetate ; CAS No. : 123-86-4)
Effective dose : 83 %
Exposure time : 28 days
Method : OECD 301D/ EEC 92/69/V, C.4-E
Readily biodegradable
12.3 Bioaccumulative potential
Shortly bioaccumulative
12.4 Mobility in soil
Evaporates quickly.
12.5 Results of PBT and vPvB assessment
This product is none, or does not contain a substance called a PBT or vPvB.
12.6 Other adverse effects
No information available.
12.7 Additional ecotoxicological information
None

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Product/Packaging disposal
Waste treatment options
Appropriate disposal / Package
Give to an incinerator or in an approved landfill in accordance with local regulations.
Contaminated packaging: Collect all residues and contaminated packaging. After an appropriate cleaning, packaging can be
reused. The packages to be disposed of are to be considered as the material itself.

SECTION 14: Transport information
14.1 UN number
UN 1993
14.2 UN proper shipping name
Land transport (ADR/RID)
XYLENES E FLAMMABLE LIQUID, N.O.S. (XYLENE E n-butyl acetate)
Sea transport (IMDG)
FLAMMABLE LIQUID, N.O.S. (XYLENE E n-butyl acetate)
Air transport (ICAO-TI / IATA-DGR)
FLAMMABLE LIQUID, N.O.S. (XYLENE E n-butyl acetate)

14.3 Transport hazard class(es)

ADR / RID:	Classe: 3	class: 3	
IMDG:	Classe: 3	class: 3	
IATA:	Classe: 3	class: 3	

Land transport (ADR/RID)
Class(es) : 3
Classification code : F1
Hazard identification number (Kemler
No.) : 30
Tunnel restriction code : D/E
Special provisions : 640E E LQ 7 E LQ 5 l E E 1 E Transport in containers with max. 450 litres contents are not

subject to the regulations of ADR/RID.
Hazard label(s) : 3
Sea transport (IMDG)
Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 5 l E E 1 E IMDG 2.3.2.5 (<= 30 l)
Hazard label(s) : 3
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3
14.4 Packing group
III
14.5 Environmental hazards
Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No
14.6 Special precautions for user
None
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.
SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation
Directive 67/548/CEE (Dangerous substances classification, labelling and packaging) and subsequent amendements.
Directive 1999/45/CE (Dangerous peparations classification, labelling and packaging) and subsequent amendements.
Regulation n°. 1907/2006/CE (REACh).
Regulation n°. 1272/2008/CE (CLP).
Regulation n°. 790/2009/CE (ramending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008)
Regulation EU 286/2011 (amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008)
Regulation EU 618/2012 (amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008).
Regulation EU 487/2013 (amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008).
Reg. 830/2015/UE (Amending Regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Authorisations and/or restrictions on use
Preparation subjected to restriction in accordance with the Annex XVII of Regulation (CE) 1907/2006. (restriction num. 3)
Other regulations (EU)
Regulation (CE) 1907/2006: Substance of very high concern (SVHC) included in the Candidate List
None
National regulations
Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX Italy: Product subject to legislative decree June 26, 2015 No 105 and Directive 2012/18/EU.
Water hazard class (WGK)
Class : 2 (Hazardous to water) Classification according to VwVwS
Other regulations, restrictions and prohibition regulations
Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.
15.2 Chemical safety assessment
For this mixture a chemical safety assessment has been carried out fort he substances.
SECTION 16: Other information
16.1 Indication of changes
In the Exposure Scenarios, if present, a double line indicates updated sections.
Identification of the substance/preparation and of the company/undertaking Accidental release measures Exposure
controls/personal protection Toxicological information Disposal considerations Transport information
16.2 Abbreviations and acronyms
LEGENDA:
ADR: Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo
relativo al trasporto internazionale delle merci pericolose su strada)
ASTM: ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS: European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in
Commercio)
EC(0/50/100): Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50100% degli Individui)
LC(0/50/100): Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50100% degli Individui)
IC50: Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL: No Observed Effect Level (Dose massima senza effetti)
NOEC: No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC: Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL: Derived No Effect Level (Dose derivata di non effetto)
DMEL: Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP: Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR: Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100): Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA: International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO: International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG: International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)
PBT: Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID: Règlement concernent le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL: Short term exposure limit (limite di esposizione a breve termine)
TLV: Threshold limit value (soglia di valore limite)
TWA: Time Weighted Average (media ponderata nel tempo)
UE: Unione Europea
vPvB: Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.: Non disponibile.
N.A.: Non applicabile
VwVwS.: Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard
Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)
PNEC: Predicted No Effect Concentration
PNOS: Particulates not Otherwise Specified
BOD: Biochemical Oxygen Demand
COD: Chemical Oxygen Demand
BCF: BioConcentration Factor
TRGS : Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo: Lethal Concentration Low (La minima concentrazione letale)
ThOD: Theoretical Oxygen Demand
16.3 Key literature references and sources for data
None
16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
16.6 Training advice
None
16.7 Additional information
None
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge.
The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage,
processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with
other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up
material.