

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 13.07.2022

Version number 6.0

Revision: 13.07.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** Xylene, mixture of isomers, for histology**Article number:** XI0052**CAS Number:**

1330-20-7

**EC number:**

215-535-7

**Index number:**

601-022-00-9

**Registration number** 01-2119488216-32-XXXX**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)**Product category** PC21 Laboratory chemicals**Process category**

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

**Application of the substance / the preparation:** Laboratory reagent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa

08181 Sentmenat (Barcelona) SPAIN

Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65

email: scharlab@scharlab.com

Internet Web Site: www.scharlab.com

**Regional representation:**

Scharlab, S.L.

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Internet Web Site: www.scharlab.com

**Further information obtainable from:** technical department**1.4 Emergency telephone number:**

Please contact the regional Scharlab distributor/dealer in your country

During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 3

H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2

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

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.

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GHS07

Acute Tox. 4 H312 Harmful in contact with skin.  
 Acute Tox. 4 H332 Harmful if inhaled.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS02



GHS07



GHS08

##### Signal word Danger

##### Hazard statements

H226 Flammable liquid and vapour.  
 H312+H332 Harmful in contact with skin or if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H304 May be fatal if swallowed and enters airways.  
 H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

##### 2.3 Other hazards

##### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.1 Chemical characterisation: Substances

#### CAS No. Description

1330-20-7 xylene

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- **Identification number(s)**
- **EC number:** 215-535-7
- **Index number:** 601-022-00-9

**SECTION 4: First aid measures**• **4.1 Description of first aid measures**• **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

Special First Aid training required.

If vapors are suspected to be still present, the rescuer should wear a suitable mask or self-contained breathing apparatus. It can be dangerous for the person providing help to apply mouth-to-mouth resuscitation.

• **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

In severe cases such as cardiorespiratory arrest, artificial respiration techniques such as mouth-to-mouth resuscitation, cardiac massage, oxygen supply, etc. will be applied.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Immediately remove contaminated clothing.

Wash contaminated clothing before reuse.

Seek medical treatment.

• **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

In the event that the injured person wears contact lenses, they must be removed as long as they are not stuck to the eyes, otherwise additional damage could occur.

• **After swallowing:**

Call a doctor immediately.

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting. Risk of perforation.

If the affected person vomits, keep the head down so that the vomit does not enter the lungs.

Never give anything by mouth to an unconscious person.

• **4.2 Most important symptoms and effects, both acute and delayed**

The main symptoms are described for different cases of contact: Skin, eyes, inhalation and ingestion.

Coughing

Nausea

• **4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

Contact a poison treatment specialist immediately if a large amount has been ingested or inhaled.

**SECTION 5: Firefighting measures**• **5.1 Extinguishing media**• **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet• **5.2 Special hazards arising from the substance or mixture**

Highly flammable liquid and vapor.

Move containers to an area that offers security, provided that this operation can be performed safely.

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Can form explosive gas-air mixtures.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

• **5.3 Advice for firefighters**

• **Protective equipment:**

In the work of extinction it is necessary to provide respiratory protection and full chemical protective clothing.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Wear self-contained respiratory protective device.

Cool exposed containers with water spray or mist.

Stay in danger area only with artificial systems and independent breathing apparatus.

### SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

Isolate leaks as long as it does not pose an additional risk to the people who perform this function.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Particular danger of slipping on leaked/spilled product.

Evacuate and restrict access.

Eliminate all sources of ignition.

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Keep contaminated washing water and dispose of appropriately.

Do not allow to enter sewers/ surface or ground water.

• **6.3 Methods and material for containment and cleaning up:**

Send for recovery or disposal in suitable receptacles.

Sweep spilled substance into containers.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

• **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

• **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Do not eat, drink or smoke during use.

Wash hands after any manipulation.

Keep receptacles tightly sealed.

Avoid breathing mist/vapours/spray.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

• **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Vapors are heavier than air and may spread along floors.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
No special requirements.  
Store in a cool, dry, well-ventilated place.  
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Avoid sources of heat, radiation, static electricity and contact with food.  
Protect from heat and direct sunlight.  
Store under lock and key and with access restricted to technical experts or their assistants only.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

#### 1330-20-7 xylene

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

- **DNELs**  
DNEL consumer, prolonged. Systematic effects: Oral - 1.6 mg/kg body weight  
DNEL consumer, prolonged. Systematic effects: Dermic - 108 mg/kg body weight  
DNEL consumer, prolonged. Systematic effects: Inhalative - 14.8 mg/m<sup>3</sup>  
DNEL worker, cronic. Systematic effects: Dermic - 180 mg/kg body weight  
DNEL worker, cronic. Systematic effects: Inhalative - 77 mg/m<sup>3</sup>  
DNEL worker, acute. Local effects: Inhalative - 289 mg/m<sup>3</sup>

- **Ingredients with biological limit values:**

#### 1330-20-7 xylene

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Fluid

**Colour:**

Colourless

**Odour:**

Aromatic

**Odour threshold:**

Not determined.

**pH-value:**

Not determined.

**Change in condition****Melting point/freezing point:**

-39 °C

**Initial boiling point and boiling range:**

137-140 °C

**Flash point:**

25 °C

**Flammability (solid, gas):**

Not applicable.

**Ignition temperature:**

488 °C

**Decomposition temperature:**

Not determined.

**Auto-ignition temperature:**

Not determined.

**Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:****Lower:**

0.8 Vol %

**Upper:**

6.7 Vol %

**Vapour pressure at 25 °C:**

0.82 hPa

**Density at 20 °C:**0.87 g/cm<sup>3</sup>**Relative density**

Not determined.

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- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water at 20 °C:** 0.2 g/l
- **Partition coefficient: n-octanol/water:** 0.49831
- **Viscosity:**
  - Dynamic at 20 °C:** 0.61 mPas
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**  
Heat, open flames and sparks  
Gas generation during decomposition can cause overpressure in closed systems.
- **10.5 Incompatible materials:** Oxidising agents.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful in contact with skin or if inhaled.
- **LD/LC50 values relevant for classification:**

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	5000 mg/l (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:**
  - Toxicity to fish
  - LC50 - Pimephales promelas (Fathead piscardo) - 13400 mg/L - 96 h
  - Toxicity to daphnia and other aquatic invertebrates
  - EC50 - Daphnia magna (large sea flea) - 2.93 mg/L - 48 h
  - Toxicity to algae
  - CE50 - Pseudokirchneriella subcapitata (Green algae) - 3600 mg/L (96h)
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential**
  - log Pow: 3.2 (20°C)
  - Bioconcentration factor (BCF): 8 - 26
  - Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
  - Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
  - Do not allow product to reach ground water, water course or sewage system.
  - Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**
  - Must be specially treated adhering to official regulations.
  - After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.
  - Contact manufacturer for recycling information.
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**
  - Packagings that may not be cleansed are to be disposed of in the same manner as the product.
  - Dispose of packaging according to regulations on the disposal of packagings.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1307
- **14.2 UN proper shipping name**
- **ADR** 1307 XYLENES
- **IMDG, IATA** XYLENES

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**14.3 Transport hazard class(es)**
**ADR, IMDG, IATA**


<b>Class</b>	3 Flammable liquids.
<b>Label</b>	3
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	III
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
<b>Hazard identification number (Kemler code):</b>	30
<b>EMS Number:</b>	3-07
<b>Stowage Category</b>	A
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Transport category</b>	3
<b>Tunnel restriction code</b>	D/E
<b>UN "Model Regulation":</b>	UN 1307 XYLENES, 3, III

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I -**
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Classification according to Regulation (EC) No 1272/2008**  
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- **Department issuing SDS:** product safety department
- **Contact:** msds@scharlab.com
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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**Annex: Exposure scenario 1**

- **1 - Short title of the exposure scenario** Industrial use
- **Sector of Use**
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- **Process category** PROC15 Use as laboratory reagent
- **Environmental release category**
  - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
  - ERC2 Formulation into mixture
- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.
- **2 - Conditions of use**
- **Duration and frequency**
  - 8hrs (full working shift).
  - 5 workdays/week.
  - Emission days (days/year): 300
- **Environment**

Wastewater is to be treated by a municipal STP. Municipal STP discharge rate <2E3 m3/d.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** Raw material.
- **Used amount per time or activity**
  - 100 tons per year
  - Handling small quantities (<1000ml). Not more than 4 hours/day.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**
  - Fraction released to air from process (initial release previous to MGR): 0.025
  - Fraction released to residual water from process (initial release previous to MGR): 0.02
  - Fraction released to ground from process (initial release previous to MGR): 0.0001
- **Other operational conditions affecting worker exposure**
  - Gloves required during a shift
  - Assumes use at not more than 20 °C above ambient temperature, unless stated differently.
  - Avoid contact with the skin.
  - Do not breathe gas/vapour/aerosol.
- **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**
  - Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.
  - Keep good industrial hygiene.
  - Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
- **Technical protective measures**
  - Drain the system before performing running operations or maintenance of equipment.
  - Ensure that suitable extractors are available on processing machines
- **Personal protective measures**
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the skin.
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the

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preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Measures for consumer protection** Ensure adequate labelling.

- **Environmental protection measures**

- **Air** No special measures required.

- **Water**

The product should not be released into water without pretreatment. An on-site wastewater treatment is recommended. The typical site treatment technology of wastewater achieves removal efficiency (%): (93.67)

- **Soil** No special measures required.

- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

- **Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

- **Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Waste type** Partially emptied and uncleaned packaging

- **3 - Exposure estimation**

To estimate exposures in the workplace has been used ECETOC TRA tool unless otherwise indicated.

- **Environment**

The estimation of environmental exposure was carried out in accordance with EUSES.

Detailed information on the estimation of the environmental exposure can be found at <http://ecb.jrc.ec.europa.eu/euses/>.

- **Consumer** Not relevant for this Exposure Scenario.

- **4 - Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.

For the risk assessment, the tools recommended by ECHA can be used.

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**Annex: Exposure scenario 2**

- **1 - Short title of the exposure scenario** Laboratory use
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Process category** PROC15 Use as laboratory reagent
- **Environmental release category**  
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **2 - Conditions of use**
- **Duration and frequency**  
8hrs (full working shift).  
5 workdays/week.  
Emission days (days/year): 365
- **Environment**  
Wastewater is to be treated by a municipal STP. Municipal STP discharge rate <2E3 m3/d.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** Raw material.
- **Used amount per time or activity**  
100 tons per year  
Handling small quantities (<1000ml). Not more than 4 hours/day.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure**  
Fraction released to air from process (initial release previous to MGR): 0.5  
Fraction released to residual water from process (initial release previous to MGR): 0.5  
Fraction released to ground from process (initial release previous to MGR): 0
- **Other operational conditions affecting worker exposure**  
Ensure adequate ventilation, especially in closed rooms.  
Gloves required during a shift  
Assumes use at not more than 20 °C above ambient temperature, unless stated differently.  
Avoid contact with the skin.  
Do not breathe gas/vapour/aerosol.
- **Other operational conditions affecting consumer exposure during the use of the product**  
Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**  
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.  
Keep good industrial hygiene.  
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
- **Technical protective measures**  
Drain the system before performing running operations or maintenance of equipment.  
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the

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**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

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**Trade name:** Xylene, mixture of isomers, for histology

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preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Measures for consumer protection** Ensure adequate labelling.

- **Environmental protection measures**

- **Air** No special measures required.

- **Water**

The product should not be released into water without pretreatment. An on-site wastewater treatment is recommended. The typical site treatment technology of wastewater achieves removal efficiency (%): (93.67)

- **Soil** No special measures required.

- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

- **Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

- **Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Waste type** Partially emptied and uncleaned packaging

- **3 - Exposure estimation**

To estimate exposures in the workplace has been used ECETOC TRA tool unless otherwise indicated.

- **Environment**

The estimation of environmental exposure was carried out in accordance with EUSES.

Detailed information on the estimation of the environmental exposure can be found at <http://ecb.jrc.ec.europa.eu/euses/>.

- **Consumer** Not relevant for this Exposure Scenario.

- **4 - Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.

For the risk assessment, the tools recommended by ECHA can be used.