sigma-aldrich.com

# SAFETY DATA SHEET

Version 6.0 Revision Date 05/28/2017 Print Date 10/04/2019

1. PF	RODUCT AND COMPANY	DENTIFICAT	ION		
1.1	Product identifiers Product name	<sup>:</sup> Xylei	nes		
	Product Number Brand	: 247642 : SIGAL	_		
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Identified uses	: Labora	atory chemicals, Synthesis of substances		
1.3	Details of the supplier of the safety data sheet				
	Company	3050 5	-Aldrich Inc. Spruce Street DUIS MO 63103		

# 2.1 Classification of the substance or mixture

**Emergency telephone number** 

Emergency Phone #

2. HAZARDS IDENTIFICATION

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 3), H226 Acute toxicity, Inhalation (Category 4), H332 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Specific target organ toxicity - repeated exposure (Category 2), H373 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, Liver, Kidney, H373 Aspiration hazard (Category 1), H304 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram

Telephone

Fax

1.4



UNITED STATES

+1 314 771-5765

+1 800 325-5052

: +1-703-527-3887

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Signal word

Danger

H226Flammable liquid and vapour.H304May be fatal if swallowed and enters airways.H315Causes skin irritation.H319Causes skin irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H351Suspected of causing cancer.H373May cause damage to organs (KS/*_2ORG_REP_INH/\$/) through prolonged or repeated exposure.H373May cause damage to organs (KS/*_2ORG_REP_INH/\$/) through prolonged or repeated exposure if inhaled.H401Toxic to aquatic life.H412Harmful to aquatic life with long lasting effects.Precautionary statement(s)Do not hancle until all safety precautions have been read and understood.P201Obtain special instructions before use.P202Do not hancle until all safety precautions have been read and understood.P210Keep away from heat/sparks/open flames/hot surfaces. No smoking.P233Keep container tightly closed.P241Use explosion-proof electrical/ ventilating/ lighting/ equipment.P242Use only non-sparking tools.P244Wash skin thoroughly after handling.P271Use only outdoors or in a well-ventilated area.P273Avoid release to the environment.P260Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.P264Wash skin thoroughly after handling.P271Use only outdoors or in a well-ventilated area.P273Avoid release to the environment.P280Wear protective gloves/ protective clothing/ eye protection/ face protection.<	Hazard statement(s)	
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P273Avoid release to the environment.P280Wear protective gloves/ protective clothing/ eye protection/ face protection.P301 + P310IF SWALLOWED: Immediately call a POISON CENTER/doctor.P303 + P361 + P353IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.P304 + P340 + P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P308 + P313IF exposed or concerned: Get medical advice/ attention.P331Do NOT induce vomiting.P332 + P313If skin irritation occurs: Get medical advice/ attention.	P264	Wash skin thoroughly after handling.
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P305 + P351 + P338breathing. Call a POISON CENTER/doctor if you feel unwell.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.P308 + P313IF exposed or concerned: Get medical advice/ attention.P331Do NOT induce vomiting.P332 + P313If skin irritation occurs: Get medical advice/ attention.		
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P331Do NOT induce vomiting.P332 + P313If skin irritation occurs: Get medical advice/ attention.		
P332 + P313 If skin irritation occurs: Get medical advice/ attention.		
P337 + P313 If eye irritation persists: Get medical advice/ attention.		
P362 Take off contaminated clothing and wash before reuse.		
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.	P370 + P378	
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.	P403 + P233	
P403 + P235 Store in a well-ventilated place. Keep cool.		
P405 Store locked up.		
P501 Dispose of contents/ container to an approved waste disposal plant.		

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

	Hazardous components		
	Molecular weight	:	106.17 g/mol
	Formula	:	C <sub>8</sub> H <sub>10</sub>
-	Synonyms	:	Xylene mixture of isomers

·····

Component		Classification	Concentration
Xylene			
CAS-No. EC-No.	1330-20-7 215-535-7	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; STOT SE 3; STOT	>= 90 - <= 100 %
Index-No.	601-022-00-9	RE 2; Asp. Tox. 1; Aquatic Acute 2; H226, H304, H315, H332, H335, H373, H401	
Ethylbenzene			
CAS-No. EC-No. Index-No.	100-41-4 202-849-4 601-023-00-4	Flam. Liq. 2; Acute Tox. 4; Carc. 2; STOT RE 2; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 3; H225, H304, H332, H351, H373, H401, H412, H225, H304, H332, H351, H373, H401	>= 20 - < 30 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3** Indication of any immediate medical attention and special treatment needed No data available

#### **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides

# **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

# 5.4 Further information

Use water spray to cool unopened containers.

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

# 6.4 Reference to other sections

For disposal see section 13.

#### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis		
Xylene	1330-20-7	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)		
	Remarks		per Respiratory Tra			
		Substance (see BEI®	section)	s a Biological Exposure Index or Indices		
		Not classif	iable as a human c			
		STEL	150.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure I (see BEI® section) Not classifiable as a human carcinogen				
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
		The value	in mg/m3 is approx	ximate.		
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
		The value	in mg/m3 is approx	ximate.		
		TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Central Ne	ervous System imp	airment		

		Upper Respiratory Tract irritation         Eye irritation         Substances for which there is a Biological Exposure Index or Indices         (see BEI® section)         Not classifiable as a human carcinogen         STEL       150.000000         ppm       USA. ACGIH Threshold Limit Values         (TLV)         Central Nervous System impairment         Upper Respiratory Tract irritation         Eye irritation         Substances for which there is a Biological Exposure Index or Indices         (see BEI® section)         Not classifiable as a human carcinogen				
		TWA	100 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Upper Resp Eye irritation Substances (see BEI® s	Central Nervous System impairment			
		STEL	150 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index of (see BEI® section) Not classifiable as a human carcinogen				
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants		
Ethylhonzono	100-41-4	The value in TWA	mg/m3 is approxi			
Ethylbenzene	100-41-4	IVVA	20.000000 ppm	(TLV)		
		Cochlear impair         Kidney damage (nephropathy)         Upper Respiratory Tract irritation         Substances for which there is a Biological Exposure Index or Indices (see BEI® section)         Confirmed animal carcinogen with unknown relevance to humans         STEL       125.000000 µpm         USA. ACGIH Threshold Limit Values (TLV)				
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans				

		TWA	100.000000 ppm 435.000000	USA. NIOSH Recommended Exposure Limits	
		ST	mg/m3 125.000000 ppm 545.000000 mg/m3	USA. NIOSH Recommended Exposure Limits	
		TWA	100.000000 ppm 435.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
		The value in	mg/m3 is app	roximate.	
		TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)	
			age (nephropa		
			ratory Tract irr for which there action)	itation e is a Biological Exposure Index or Indices	
				en with unknown relevance to humans	
		TWA	100 ppm 435 mg/m3	USA. NIOSH Recommended Exposure Limits	
		ST	125 ppm 545 mg/m3	USA. NIOSH Recommended Exposure Limits	
		TWA	100 ppm 435 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
		The value in	mg/m3 is app	roximate.	
		TWA	100 ppm 435 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
		STEL	125 ppm 545 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
<b>Biological occupa</b>	ational exposure	e limits			
Component	CAS-No.	Parameters	Value	Biological Basis specimen	
Xylene	1330-20-7	Methylhippur c acids	i 1,500.000 0 mg/g	Urine ACGIH - Biological Exposure Indices (BEI)	
	Description		•		

				specimen	
Xylene	1330-20-7	Methylhippuri c acids	1,500.000 0 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As	s soon as po	ssible after exposure	e ceases)
		Methylhippuri c acids	1,500.000 0 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As	s soon as po	ssible after exposure	e ceases)
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at	end of workw	veek	
		Ethylbenzene		In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
		Not critical			
		Sum of mandelic acid and phenyl glyoxylic acid		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As	s soon as po	ssible after exposure	e ceases)

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	< 0 °C (< 32 °F)
f)	Initial boiling point and boiling range	137 - 140 °C (279 - 284 °F) - lit.
g)	Flash point	25 °C (77 °F) - closed cup

h)	Evaporation rate	No data available			
i)	Flammability (solid, gas)	No data available			
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7 %(V) Lower explosion limit: 1.1 %(V)			
k)	Vapour pressure	24 hPa at 37.70 °C (99.86 °F)			
I)	Vapour density	3.67 - (Air = 1.0)			
m)	Relative density	0.86 g/mL at 25 °C (77 °F)			
n)	Water solubility	No data available			
o)	Partition coefficient: n- octanol/water	No data available			
p)	Auto-ignition temperature	No data available			
q)	Decomposition temperature	No data available			
r)	Viscosity	No data available			
s)	Explosive properties	No data available			
t)	Oxidizing properties	No data available			
Other safety information					

Relative vapour density

# 10. STABILITY AND REACTIVITY

10.1 Reactivity

9.2

No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixture with air.
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5** Incompatible materials Strong oxidizing agents
- Hazardous decomposition products
   Hazardous decomposition products formed under fire conditions. Carbon oxides
   Other decomposition products No data available
   In the event of fire: see section 5

3.67 - (Air = 1.0)

#### **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

**Respiratory or skin sensitisation** No data available

Germ cell mutagenicity No data available

#### Carcinogenicity

- IARC: 2B Group 2B: Possibly carcinogenic to humans (Ethylbenzene)
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

No data available No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

#### **Additional Information**

**RTECS:** Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

#### **12. ECOLOGICAL INFORMATION**

12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

# **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and nonrecyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

<b>DOT (US)</b> UN number: 1307 Class: 3 Proper shipping name: Xylenes Reportable Quantity (RQ) :	Packing group: III 100 lbs	
Poison Inhalation Hazard: No		
IMDG UN number: 1307 Class: 3 Proper shipping name: XYLENES	Packing group: III	EMS-No: F-E, S-D
IATA UN number: 1307 Class: 3 Proper shipping name: Xylenes	Packing group: III	

#### **15. REGULATORY INFORMATION**

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:					
	CAS-No.	Revision Date			
Ethylbenzene	100-41-4	2007-07-01			
Xylene	1330-20-7	1993-04-24			
SARA 311/312 Hazards Fire Hazard, Acute Health Hazard, Chronic Health Hazard					
Massachusetts Right To Know Components					
	CAS-No.	Revision Date			
Xylene	1330-20-7	1993-04-24			
Ethylbenzene	100-41-4	2007-07-01			
Pennsylvania Right To Know Components					
	CAS-No.	Revision Date			
Xylene	1330-20-7	1993-04-24			
Ethylbenzene	100-41-4	2007-07-01			
New Jersey Right To Know Components					
	CAS-No.	Revision Date			
Xylene	1330-20-7	1993-04-24			
Ethylbenzene	100-41-4	2007-07-01			
California Prop. 65 Components					
WARNING! This product contains a chemical known to the	CAS-No.	Revision Date			
State of California to cause cancer.	100-41-4	2007-09-28			
Ethylbenzene					
-					

## **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs (/\$/*_2ORG_REP_INH/\$/) through prolonged or
	repeated exposure if inhaled.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

#### **HMIS Rating**

0	
Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	

#### **NFPA** Rating

Health hazard:	2	
Fire Hazard:	3	
Reactivity Hazard:	0	

#### **Further information**

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#### **Preparation Information**

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