

acc. to NOM-018-STPS-2015 and NMX-R-019-SFCI-2011

# o-XYLENE

Version number: GHS 1.0

### **SECTION 1: Identification**

#### 1.1 **Product identifier**

Identification of the substance

CAS number

## o-Xylene Synonyms: O/XYLENE, 1,2 DIMETHYL BENZENE, ORTO- DIMETHYL BENZENE, XYLENE

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95-47-6

Industrial use

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

Relevant identified uses

#### **1.3** Details of the supplier of the safety data sheet

Síntesis Orgánicas S.A. de C.V. Km. 154 Carr. México-Veracruz 90640 San Cosme Xaloztoc, Tlaxcala Mexico

Telephone: +52 241 413 0000 e-mail: marmenta@idesa.com.mx Website: www.grupoidesa.com

e-mail (competent person)

## 1.4 Emergency telephone number

Emergency information service

marmenta@idesa.com.mx (Manuel Armenta)

Tel. (55) 5559 1588 Cd. de México. SETIQ - 01 800 0021400

# **SECTION 2: Hazard**(s) identification

# 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.1D	acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
4.1A	hazardous to the aquatic environment - acute hazard	2	Aquatic Acute 2	H401

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.



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### Additional information According to the results of its assessment, this substance is not a PBT or a vPvB.

## 2.2 Label elements

Labeling

- Signal word warning
- Pictograms

GHS02, GHS07



## - Hazard statements

Flammable liquid and vapor.
Harmful in contact with skin or if inhaled.
Causes skin irritation.
Toxic to aquatic life.

- Precautionary statements

- Precautionary stateme	ents
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/eye protection/face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial combustion plant.

# 2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

Name of substance	o-xylene
Identifiers	
CAS No	95-47-6
Molecular formula	C8H10
Molar mass	106.2 g/mol



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#### **SECTION 4: First-aid measures**

#### 4.1 Description of first- aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

# **4.2** Most important symptoms and effects, both acute and delayed Symptoms and effects are not known to date.

# **4.3** Indication of any immediate medical attention and special treatment needed none

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

# Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media Water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

#### Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

#### Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 **Reference** to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

#### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

#### - Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks



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#### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### - Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

00	Occupational exposure limit values (Workplace Exposure Limits)								
	oun try	Name of agent	CAS No	Identifi- er	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m³]	Source
N	МХ	o-xylene	95-47-6	VLE	100		150		NOM-010- STPS

 $\frac{\text{Notation}}{\text{STEL}}$ 

 STEL
 short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

 TWA
 time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

### Human health values

Relevant DNELs and other threshold levels					
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time	
DNEL	221 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects	
DNEL	3,182 mg/kg	human, dermal	worker (industry)	chronic - systemic effects	
DNEL	221 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects	

### **Environment values**

Relevant PNECs and other threshold levels					
Endpoint	Threshold level	Organism	Environmental compart- ment	Exposure time	
PNEC	$0.25 \text{ mg}_{l}$	aquatic organisms	freshwater	short-term (single instance)	
PNEC	$0.25 \text{ mg}_{l}$	aquatic organisms	marine water	short-term (single instance)	
PNEC	5 <sup>mg</sup> / <sub>l</sub>	microorganisms	sewage treatment plant (STP)	short-term (single instance)	
PNEC	$14.33 \text{ mg}/_{kg}$	benthic organisms	sediment	short-term (single instance)	



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Relevant PNECs and other threshold levels					
Endpoint	Threshold level	Organism	Environmental compart- ment	Exposure time	
PNEC	14.33 <sup>mg</sup> / <sub>kg</sub>	pelagic organisms	sediment	short-term (single instance)	
PNEC	$2.41 \ ^{mg}\!/_{kg}$	terrestrial organisms	soil	short-term (single instance)	
PNEC	0.25  mg/l	aquatic organisms	water	intermittent release	

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

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

#### Appearance

Physical state	liquid
Color	Colourless
Odor	Aromatic

#### Other safety parameters

pH (value)	not determined
Melting point/freezing point	-25.2 °C at 1,013 hPa
Initial boiling point and boiling range	139.1 °C at 1,013 hPa
Flash point	27 °C at 1,013 hPa



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Evaporation rate	not determined			
Flammability (solid, gas)	not relevant (fluid)			
Explosive limits				
- Lower explosion limit (LEL)	0.9 vol%			
- Upper explosion limit (UEL)	6.7 vol%			
Vapor pressure	0.207 PSI at 85 °F			
Density	0.88 $g_{\rm cm^3}$ at 25 °C			
Vapor density	this information is not available			
Solubility(ies)				
- Water solubility	146 $^{mg}/_{l}$ at 25 $^{\circ}C$			
Partition coefficient				
- n-octanol/water (log KOW)	3.2 (pH value: 7, 20 °C) (ECHA)			
- Soil organic carbon/water (log KOC)	2.73 (ECHA)			
Auto-ignition temperature	463 °C			
Viscosity				
- Dynamic viscosity	0.81 mPa s at 20 °C			
Explosive properties	none			
Oxidizing properties	none			
Other information				
Surface tension	$28.47 \text{ mN}_{m} (25 \text{ °C}) \text{ (ECHA)}$			

Surface tension	$28.47 \text{ mN}_{m} (25 \text{ °C}) \text{ (ECHA)}$
Temperature class (USA, acc. to NEC 500)	T1 (maximum permissible surface temperature on the equipment: $450^{\circ}$ C)

9.2



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# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

#### **10.2** Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### **10.4** Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### **10.5** Incompatible materials

Oxidizers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Classification acc. to GHS

Acute toxicity

Harmful in contact with skin. Harmful if inhaled.

- Acute toxicity estimate (ATE) Dermal 1,100 <sup>mg</sup>/<sub>kg</sub> Inhalation: vapor 11 <sup>mg</sup>/<sub>/</sub>/4h

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitization Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity Shall not be classified as germ cell mutagenic.



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#### Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

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Toxic to aquatic life.

Aquatic toxicity (acute)			
Endpoint	Value	Species	Exposure time
LC50	8.4 <sup>mg</sup> / <sub>l</sub>	fish	96 h
LC50	21 <sup>mg</sup> / <sub>l</sub>	crustacean	48 h
EC50	4.9 <sup>mg</sup> / <sub>l</sub>	algae	72 h
EC50	3.82 <sup>mg</sup> / <sub>l</sub>	crustacean	48 h
ErC50	4.7 <sup>mg</sup> / <sub>l</sub>	algae	72 h

#### Biodegradation

The substance is readily biodegradable. The relevant substances of the mixture are readily biodegradable.

### 12.2 Persistence and degradability

Process of degradability		
Process	Degradation rate	Time
carbon dioxide generation	50 %	23 d

### 12.3 Bioaccumulative potential

Data are not available.

n-octanol/water (log KOW)	3.2 (pH value: 7, 20 °C) (ECHA)
BCF	>5.5-<12.2 (ECHA)

### 12.4 Mobility in soil

Data are not available.



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I	Henry's law constant	$623 ^{\text{Pa m}^3}/_{\text{mol}} \text{ at } 25 ^{\circ}\text{C}$
	The Organic Carbon normalised adsorption coefficient	2.73 (ECHA)

# 12.5 Results of PBT and vPvB assessment

Data are not available.

## 12.6 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information** 14.1 **UN number** 1307 14.2 **XYLENES** UN proper shipping name 14.3 Transport hazard class(es) Class 3 (flammable liquids) 14.4 Packing group III (substance presenting low danger) 14.5 **Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations

- **14.6** Special precautions for user There is no additional information.
- **14.7** Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations		
Transport information - National regulations - Additional information (UN RTDG)		
UN number	1307	
Proper shipping name	XYLENES	
Class	3	
Packing group	III	



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Special provisions (SP)	$223 \hspace{0.1 cm} (\text{UN RTDG})$
Excepted quantities (EQ)	E1 (UN RTDG)
Limited quantities (LQ)	5 L (UN RTDG)
International Maritime Dangerous Goods Code (I	MDG)
UN number	1307
Proper shipping name	XYLENES
Class	3
Packing group	III
Danger label(s)	3
Special provisions (SP)	223
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-D
Stowage category	A
International Civil Aviation Organization (ICAO-IA	ATA/DGR)
UN number	1307
Proper shipping name	Xylenes
Class	3
Packing group	III
Danger label(s)	3
Special provisions (SD)	A3
Special provisions (SP)	A3 E1
Excepted quantities (EQ)	
Limited quantities (LQ)	10 L



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# SECTION 15: Regulatory information

**15.1** Safety, health and environmental regulations specific for the product in question There is no additional information.

National regulations (United States)

Toxic Substance Control Act (TSCA) substance is listed

### SARA TITLE III (Superfund Amendment and Reauthorization Act)

- List of Extremely Hazardous Substances (40 CFR 355) (EPCRA Section 302 and 304) not listed

- Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name acc. to inventory         CAS No         Remarks         Effective date			
o-xylene	95-47-6		1986-12-31

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)

- Section 102(A) Hazardous Substances (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
o-xylene	95-47-6		3	1000 (454)

 $\frac{\text{Legend}}{3}$ 

"3" indicates that the source is section 112 of the Clean Air Act

Clean Air Act

not listed

New Jersey Worker and Community Right to Know Act N.J.S.A. 34:5A-1 et. seq.

Right to Know Hazardous Substance List			
Name acc. to inventory	CAS No	Remarks	Classifications
o-xylene	95-47-6		F3

Legend

F3 Flammable - Third Degree

California Environmental Protection Agency (Cal/EPA): Proposition 65 Chemicals known to the State to cause cancer or reproductive toxicity

not listed

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.



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## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NOM-010-STPS	NORMA Oficial Mexicana NOM-010-STPS: Agentes químicos contaminantes del ambiente laboral-Reconocimi- ento, evaluación y control
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
STEL	Short-term exposure limit
TWA	Time-weighted average
VLE	Permissible exposure limit
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Norma Oficial Mexicana NOM-018-STPS-2015, Sistema armonizado para la identificación y comunicación de peligros y riesgos por sustancias químicas peligrosas en los centros de trabajo y NMX-R-019-SCFI-2011 Sistema Armonizado de Clasificación y Comunicación de Peligros de los Productos Químicos.

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H401	Toxic to aquatic life.



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#### Disclaimer

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