

2,4'-Dimethylbiphenyl Safety Data Sheet 17001Y3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/22/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	. Outestance
Substance name	: Substance : 2,4'-Dimethylbiphenyl
CAS No Product code	: 611-61-0 : 1700-1-Y3
ormula	: C14H14
ynonyms	: 1-Methyl-4-(2-methylphenyl)benzene; o,p'-Bitoluene
other means of identification	: MFCD15042185
.2. Relevant identified uses of the	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the sa	ifety data sheet
SynQuest Laboratories, Inc. 2.O. Box 309 Nachua, FL 32615 - United States of Ameri ⁻ (386) 462-0788 - F (386) 462-7097	
nfo@synquestlabs.com - www.synquestlab	<u>is.com</u>
.4. Emergency telephone number	: (844) 523-4086 (3E Company - Account 10069)
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirato	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements	irritation bry irritation : : : : : : : : : : : : : : : : : : :
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirato ull text of H-phrases: see section 16 .2. Label elements HS-US labeling lazard pictograms (GHS-US)	 irritation by irritation : irritation : irritation : irritation : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

2,4'-Dimethylbiphenyl

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	Federal Register / Vol. //, No. 58 / Monday, M	aicii 26,			
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTIO	ON 3: Composition/information	on in	gredients		
3.1.	Substance				
Substanc	e type	Mono	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
2,4'-Dime (Main cons	ethylbiphenyl stituent)		(CAS No) 611-61-0	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text c	of H-phrases: see section 16				
3.2.	Mixture				
Not applic					
SECTIO	ON 4: First aid measures				
4.1.	Description of first aid measures				
irst-aid r	measures general		se of accident or if you feel unwell, seek is possible). Move the affected personnel		,
First-aid r	measures after inhalation	Rem	by person to fresh air and keep comforta ration. Get medical advice/attention.		
First-aid r	measures after skin contact	•	n with plenty of soap and water. Get med	ical advice/atten	tion.
First-aid r		Imme	ediately flush eyes thoroughly with water	for at least 15 m	inutes. Remove contact lenses, if
			ent and easy to do. Continue rinsing. Get		
First-aid r	measures after ingestion		OT induce vomiting. Never give anything h out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effects	, both	acute and delayed		
Symptom	is/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3.	Indication of any immediate medical a	ttentio	n and special treatment needed		
Treat sym	nptomatically.				
SECTIO	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable e	extinguishing media	Alcoh	ol resistant foam. Carbon dioxide. Dry po	owder. Water sp	ray.
5.2.	Special hazards arising from the subs	tance	or mixture		
Fire haza	ird :	Ther	nal decomposition generates: Carbon ox	ides.	
5.3.	Advice for firefighters				
Protectior	n during firefighting		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
SECTIO	DN 6: Accidental release measu	ires			
6.1.	Personal precautions, protective equi	pment	and emergency procedures		
General n		Evac	uate unnecessary personnel. Ensure ade r or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1.	For non-emergency personnel				
Emergen		Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. Protective	For emergency responders e equipment		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
6.2.	Environmental precautions				
Stop leak	if safe to do so. Avoid release to the envi	ironme	nt. Notify authorities if product enters sew	vers or public wa	iters.
6.3.	Methods and material for containment	t and c	leaning up		
For conta	ainment	Dike	for recovery or absorb with appropriate m	naterial.	

2,4'-Dimethylbiphenyl Safety Data Sheet

Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
.4. Reference to other sections	
lo additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
lygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Keep container tightly closed.
storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	
lo additional information available	
3.2. Exposure controls	
ppropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
ye protection	: Chemical goggles or safety glasses. Face shield.
kin and body protection	: Wear suitable protective clothing.
espiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
SECTION 9: Physical and chemical	nronortios
.1. Information on basic physical and	
Physical state	
Color	: Liquid : No data available
Ddor	: No data available
Ddor threshold	
	: No data available
H Aolting point	: No data available
	: No data available
reezing point	: No data available
colling point	: 273 - 276 °C
lash point	: No data available
elative evaporation rate (butyl acetate=1)	: No data available
lammability (solid, gas)	No data available
xplosion limits	: No data available
xplosive properties	: No data available
vidizing properties	: No data available
apor pressure	: No data available
elative density	: No data available
elative vapor density at 20 °C	: No data available
pecific gravity / density	: 0.9924 g/ml (@ 20 °C)
lolecular mass	: 182.26 g/mol
olubility	: No data available
og Pow	: No data available
uto-ignition temperature	: No data available
• • • • • • • • • • • • • • • • • • •	: No data available
Decomposition temperature	

Viscosity

: No data available

2,4'-Dimethylbiphenyl Safety Data Sheet

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday.	, March 26, 2012 / Rules and Regulations
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.5826 (@ 20 °C)
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	prage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	\$
Under normal conditions of storage and use, has fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informat	lion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	

No additional information available

SECTION 13: Disposal considerations			
13.1.	Waste treatment methods		
Waste tr	reatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	

2,4'-Dimethylbiphenyl

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Waste disposal recommendations

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information		
5.1. US Federal regulations		
2,4'-Dimethylbiphenyl (611-61-0)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		
All components of this product are listed, or excluded fro Substances Control Act (TSCA) inventory except for:	om listing, on the United States Environme	ntal Protection Agency Toxic
2,4'-Dimethylbiphenyl	CAS No 611-61-0	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations No additional information available

No additional miormation available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

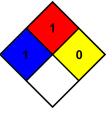
Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard NFPA reactivity

- : 1 Must be preheated before ignition can occur.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



2,4'-Dimethylbiphenyl

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.