# SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0 Creation Date: Aug 14, 2017 Revision Date: Aug 14, 2017

1.Identification

1.1 GHS Product identifier	
Product name	BIPHENYL-2,2'-DIACETONITRILE
1.2 Other means of identification	
Product number Other names	- biphenyl-2,2'-diyldi-acetic acid
1.3 Recommended use of the chemical and restrictions on use Identified uses For industry use only.	
Identified uses Uses advised against	For industry use only. no data available
1.4 Supplier's details	
Company Address Telephone Fax	Echemi.com Echemi.com Echemi.com Echemi.com
1.5 Emergency phone number	
Emergency phone number Service hours	Echemi.com Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).
2.Hazard identification	

# 2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 4 Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

# 2.2 GHS label elements, including precautionary statements

Pictogram(s)

	$\Psi_{\alpha}$
Signal word	Warning
Hazard statement(s)	H302 Harmful if swallowed
	H400 Very toxic to aquatic life
Precautionary statement(s)	
Prevention	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P273 Avoid release to the environment.
Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
	P330 Rinse mouth.
	P391 Collect spillage.
Storage	none
Disposal	P501 Dispose of contents/container to

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# 2.3 Other hazards which do not result in classification

none

# 3.Composition/information on ingredients

### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
BIPHENYL-2,2'-DIACETONITRILE	BIPHENYL-2,2'-DIACETONITRILE	93012-30-7	none	100%

# 4.First-aid measures

# 4.1 Description of necessary first-aid measures

# General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

# 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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 4.2 Most important symptoms/effects, acute and delayed

no data available

# 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

### 5.1 Extinguishing media

### Suitable extinguishing media

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

### 5.2 Specific hazards arising from the chemical

no data available

# 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 6.Accidental release measures

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7.Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 8.Exposure controls/personal protection

### 8.1 Control parameters

Occupational Exposure limit values

no data available

# **Biological limit values**

no data available

# 8.2 Appropriate engineering controls

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

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

# Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Respiratory protection**

Wear dust mask when handling large quantities.

# Thermal hazards

no data available

# 9.Physical and chemical properties

Physical state Colour Odour Melting point/ freezing point Boiling point or initial boiling point and boiling range	no data available no data available no data available 78-79°C 468.1°C at 760mmHg			
Flammability	no data available			
Lower and upper explosion limit / flammability limitno data available				
Flash point	231.7°C			
Auto-ignition temperature	no data available			
Decomposition temperature	no data available			
pH	no data available			
Kinematic viscosity	no data available			
Solubility	no data available			
Partition coefficient n-octanol/water (log value)	no data available			
Vapour pressure	no data available			
Density and/or relative density	1.121g/cm3			
Relative vapour density	no data available			
Particle characteristics	no data available			

### 10.Stability and reactivity

### **10.1 Reactivity**

no data available

# 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

no data available

no data available

# **10.5 Incompatible materials**

no data available

# 10.6 Hazardous decomposition products

no data available

### **11.Toxicological information**

### Acute toxicity

Oral: no data available

- Inhalation: no data available
- · Dermal: no data available

### Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

Germ cell mutagenicity no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

# STOT-single exposure

no data available

# STOT-repeated exposure

no data available

### Aspiration hazard

no data available

# 12. Ecological information

# 12.1 Toxicity

- Toxicity to fish: no data available
- · Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- · Toxicity to microorganisms: 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 Other adverse effects

no data available

### 13.Disposal considerations

13.1 Disposal methods

# Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

### 14.Transport information

# 14.1 UN Number ADR/RID: no data available IMDG: no data available IATA: no data available 14.2 UN Proper Shipping Name ADR/RID: no data available IATA: no data available ADR/RID: no data available EADR/RID: no data available IATA: no data available IMDG: no data available IMDG: no data available IATA: no data available 14.3 Transport hazard class(es) IMDG: no data available IATA: no data available

# 14.4 Packing group, if applicable

ADR/RID: no data available

IMDG: no data available

IATA: no data available

# 14.5 Environmental hazards

ADR/RID: yes

# 14.6 Special precautions for user

no data available

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

# **15.Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
BIPHENYL-2,2'-DIACETONITRILE	BIPHENYL-2,2'-DIACETONITRILE	93012-30-7	none
European Inventory of Existing Commercial Chemical Substances (EINECS) EC Inventory United States Toxic Substances Control Act (TSCA) Inventory China Catalog of Hazardous chemicals 2015 New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	)		Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China	IECSC)		Not Listed.

IMDG: yes

# 16.Other information

### Information on revision

### Abbreviations and acronyms

CAS: Chemical Abstracts Service
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
 IMDG: International Maritime Dangerous Goods
 IATEA: International AirTime to the provide the provid

IATA: International Air Transportation Association
 IATA: International Air Transportation Association
 TWA: Time Weighted Average
 STEL: Short term exposure limit
 LCS0: Lethal Concentration 50%
 LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

# References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

• IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- · CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: 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 applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling o lling or from contact with the above product.