

and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0 Creation Date: Aug 20, 2018 Revision Date: Aug 20, 2018

1.Identification

1.1 GHS Product identifier

Product name 9,10-Dimethylanthracene

1.2 Other means of identification

Product number AC1302 Other names Anthracene, 9,10-dimethyl-

1.3 Recommended use of the chemical and restrictions on use

Identified uses For industry use only. Uses advised against no data available

1.4 Supplier's details

Company Acros PharmaTech Limited HongKong: Unit 3A-8,12/F, Kaiser Centre, No.18 Centre Street, Sai Ying Pun, HongKong Address Mainland:Suite 920,Changwu Road 888,Changzhou,Jiangsu,China **Telephone** 86(519)85265509

2.Hazard identification

2.1 Classification of the substance or mixture

Acute toxicity - Dermal, Category 4

Skin sensitization, Category 1

Acute toxicity - Inhalation, Category 4

Respiratory sensitization, Category 1

2.2 GHS label elements, including precautionary statements

Pictogram(s)

Signal word



Danger

H312 Harmful in contact with skin

H317 May cause an allergic skin reaction

Hazard statement(s)

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Prevention

P272 Contaminated work clothing should not be allowed out of the workplace.



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	P271 Use only outdoors or in a well-ventilated area.			
	P284 [In case of inadequate ventilation] wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of water/			
	P312 Call a POISON CENTER/doctor/if you feel unwell.			
	P321 Specific treatment (see on this label).			
Response	P362+P364 Take off contaminated clothing and wash it before reuse.			
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.			
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
Storage Disposal	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ none P501 Dispose of contents/container to			
2.3 Other hazards which	do not result in classification			
none				
3.Composition/informati	on on ingredients			
3.1 Substances				
	mmon names and synonyms CAS number EC number Concentration			
9,10-Dimethylanthracene 9,10	0-Dimethylanthracene 781-43-1 none ≥98%			
4.First-aid measures				
4.1 Description of necessary first-aid measures				
General advice				
Consult a physician. Show the	is 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



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no data available

5.Fire-fighting measures

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.



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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	yellow crystals or crystalline powder			
Colour	no data available			
Odour	no data available			
Melting point/ freezing point	285°C(dec.)(lit.)			
Boiling point or initial boiling point and boiling range 148°C(lit.)				
Flammability	no data available			
Lower and upper explosion limit / flammability limit	no data available			
Flash point	37°C(lit.)			
Auto-ignition temperature	no data available			
Decomposition temperature	no data available			
рН	no data available			
Kinematic viscosity	no data available			
Solubility	In water, 5.60X10-2 mg/l at 25°C			
Partition coefficient n-octanol/water (log value)	Log Kow = 5.69			
Vapour pressure	no data available			
Density and/or relative density	1.084g/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



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no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

When heated to decomposition it emits acrid smoke and irritating fumes.

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



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- 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

In Warburg respirometer tests, 9,10-dimethylanthracene (concentration of 500 mg/l) was not significantly biodegraded by activated sludge from three different treatment plants(1). 9,10-Dimethylanthracene reached 19.5% of its theoretical oxygen demand over a period 144 hours using activated sludge from a treatment plant receiving municipal waste(1). 9,10-Dimethylanthracene was not biodegraded by activated sludge obtained from a treatment plant receiving residential wastes only (1). 9,10-Dimethylanthracene reached 1.6% of its theoretical oxygen demand over a period of 144 hours using activated sludge from a treatment plant receiving combined domestic wastewater(1).

12.3 Bioaccumulative potential

An estimated BCF of 1.2X10+4 was calculated for 9,10-dimethylanthracene(SRC), using a measured log Kow of 5.69(1) and a recommended regression-derived equation(2). According to a classification scheme(3), this BCF suggests that bioconcentration in aquatic organisms is very high(SRC).

12.4 Mobility in soil

The Koc of 9,10-dimethylanthracene is estimated as approximately 3.0X10+4(SRC), using a measured log Kow of 5.69(1) and a regression-derived equation(2,SRC). According to a recommended classification scheme(3), this estimated Koc value suggests that 9,10-dimethylanthracene is expected to be immobile in soil(SRC).

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: UN2986 IMDG: UN2986 IATA: UN2986

14.2 UN Proper Shipping Name

ADR/RID: CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. IMDG: CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. IATA: CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.

14.3 Transport hazard class(es)



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ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packing group, if applicable

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

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		
9,10-Dimethylanthracene	9,10-Dimethylanthracene	781-43-1	none		
European Inventory of Existing Commercial Chemical Substances (EINECS) Listed.					
EC Inventory			Listed.		
United States Toxic Substances Control Act (TSCA) Inventory					
China Catalog of Hazardous chemicals 2015					
New Zealand Inventory of Chemicals (NZIoC)					
Philippines Inventory of Chemicals and Chemical Substances (PICCS)					
Vietnam National Chemical Inventory					
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed					

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed.

16.Other information

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
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: 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 ٠
- 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: ٠ http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple ٠
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp •



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- 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: ٠ http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

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