

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Arsenazo III

SDS-number : 000000020677

Type of product : Substance

Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

Chemical name : 2,7-(Bis(2-arsonophenylazo))-1,8-dihydroxynaphthalene-3,6-disulphonic acid

Index-No. : 033-002-00-5

REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals

Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Honeywell International Inc. Honeywell International, Inc.
115 Tabor Road 115 Tabor Road
07950-2546 Morris Plains Morris Plains, NJ 07950-2546
USA USA

Telephone :
For further information, please contact: : SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Country based Poison Control Center : see chapter 15.1

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute toxicity Category 3 - Oral
H301 Toxic if swallowed.
Acute toxicity Category 3 - Inhalation
H331 Toxic if inhaled.
Short-term (acute) aquatic hazard Category 1
H400 Very toxic to aquatic life.
Long-term (chronic) aquatic hazard Category 1
H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H301 + H331 H410	Toxic if swallowed or if inhaled. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P260 P280 P280 P284 P301 + P330 + P331 P304 + P340 P308 + P313	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ eye protection/ face protection. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

advice/ attention.

2.3. Other hazards

None known. Results of PBT and vPvB assessment, see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
2,7-(Bis(2- arsonophenylazo))-1,8- dihydroxynaphthalene- 3,6-disulphonic acid	1668-00-4 033-002-00-5 216-788-6	Acute Tox. 3; H301; Oral Acute Tox. 3; H331; Inhalation Aquatic Acute 1; H400 Aquatic Chronic 1; H410	100 %	

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Symptoms of poisoning may appear several hours later. Take off all contaminated clothing immediately.

Inhalation:

If inhaled, remove to fresh air. Call a physician immediately.

Skin contact:

Then wash with lots of water and soap. If symptoms persist, call a physician.

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Remove contact lenses. Call a physician immediately.

Ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with this card

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

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Extinguishing media which shall not be used for safety reasons:

High volume water jet

5.2. Special hazards arising from the substance or mixture

Some risk may be expected of corrosive and toxic decomposition products.

Pyrolysis products
carbon oxides (CO, CO₂), nitrogen oxides (NO_x).
Sulphur oxides
Toxic metal oxide fumes

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water.

6.3. Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Avoid exposure - obtain special instructions before use. Wear personal protective equipment. Exhaust ventilation at the object is necessary. Keep limited supplies at workplace.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes. Recommended preventive skin protection. When using, do not eat, drink or smoke.

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

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

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

Recommended storage temperature: room temperature. (Ambient temperature: > 0 < 35°C)

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
2,7-(Bis(2-aronophenylazo))-1,8-dihydroxynaphthalene-3,6-disulphonic acid	EH40 WEL TWA	0,1 mg/m3 Arsenic		

TWA - Time weighted average

DNEL/ PNEC-Values

No DNEL-data available.

No PNEC data available.

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Ensure that eyewash stations and safety showers are close to the workstation location.

Engineering measures

Local exhaust

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Personal protective equipment

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter.

Recommended Filter type:

Suitable mask with particle filter P3 (European Norm 143)

Hand protection:

Glove material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0,11 mm

Dermatril®740

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer´s directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:

Tightly fitting safety goggles

Skin and body protection:

Wear suitable protective equipment.

Protective suit

Lab coat

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Physical state	: solid
Colour	: dark brown
Odour	: odourless
molecular weight	: 776,37 g/mol
Melting point/range	: > 320 °C
Boiling point/boiling range	: Not applicable Decomposition
Flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: To avoid thermal decomposition, do not overheat.
pH	: No data available
Auto-ignition temperature	: not auto-flammable
Viscosity, kinematic	: Not applicable
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: negligible
Density	: No data available
Bulk density	: No data available

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Relative vapour density : No data available

9.2 Other Information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

With oxidizing agents possible.

10.4. Conditions to avoid

Keep away from direct sunlight.

10.5. Incompatible materials

oxidising substances

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Classification based on Annex VI of regulation 1272/2008/EC.

Acute dermal toxicity:

No data available

Acute inhalation toxicity:

Classification based on Annex VI of regulation 1272/2008/EC.

Skin irritation:

No data available

Eye irritation:

No data available

Respiratory or skin sensitisation:

No data available

Aspiration hazard:

Not applicable

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information:

No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

Classification based on Annex VI of regulation 1272/2008/EC.

Toxicity to aquatic plants:

Classification based on Annex VI of regulation 1272/2008/EC.

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

Toxicity to aquatic invertebrates:

Classification based on Annex VI of regulation 1272/2008/EC.

12.2. Persistence and degradability

Biodegradability:

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

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number

ADR/RID:3465

IMDG:3465

IATA:3465

14.2 UN proper shipping name

ADR/RID:ORGANOARSENIC COMPOUND, SOLID, N.O.S.(2,7-(BIS(2-ARSONOPHENYLAZO))-1,8-DIHYDROXYNAPHTHALENE-3,6-DISULPHONIC ACID)

IMDG:ORGANOARSENIC COMPOUND, SOLID, N.O.S.(2,7-(BIS(2-ARSONOPHENYLAZO))-1,8-DIHYDROXYNAPHTHALENE-3,6-DISULPHONIC ACID)

IATA:Organoarsenic compound, solid, n.o.s.(2,7-(Bis(2- arsonophenylazo))-1,8-dihydroxynaphthalene-3,6-disulphonic acid)

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: yes

Marine pollutant: yes

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Basis	Value	Remarks
Regulation (EC) No. 1907/2006, Annex XVII		This product contains an ingredient according to Annex XVII of the REACH Regulation1907/2006/EC.
Directive 2012/18/EC	Quantity: 50.000 kg	

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

SEVESO III Listed in Regulation : H2: ACUTE TOXIC	Quantity: 200.000 kg	
Directive 2012/18/EC SEVESO III Listed in Regulation : E1: Hazardous to the aquatic environment	Quantity: 100.000 kg Quantity: 200.000 kg	

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Gif tinformation); +46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

Other inventory information

US. Toxic Substances Control Act
Not On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended
Not in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
Not in compliance with the inventory

Japan. Kashin-Hou Law List
Not in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)
Not in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)
On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

Arsenazo III

11090-25G

Version 2.1

Revision Date 17.12.2022

Supersedes 1

2,7-(Bis(2- arsonophenylazo))-1,8- dihydroxynaphthalene-3,6- disulphonic acid	:	H301	Toxic if swallowed.
		H331	Toxic if inhaled.
		H400	Very toxic to aquatic life.
		H410	Very toxic to aquatic life with long lasting effects.

Further information

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

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