### **DIPHENYLAMINE AR/ACS MSDS**

# CAS-No.: 122-39-4 MSDS



### **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
	:
EC Index-No.	: 612-026-00-5
EC-No.	: 204-539-4
CAS-No.	: 122-39-4
Product code	: 03501
Formula	: C12H11N
Chemical structure	
Synonyms	: N-phenylbenzenamine
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: Industrial For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	e safety data sheet

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#### **SECTION 2: Hazards identification**

2.1. Classification of	of the substance or mixture		
Classification according	g to Regulation (EC) No. 1272/2008 [CLP]		
Acute toxicity (oral), Category 3	H301		
Acute toxicity (dermal), Category 3	H311		
Acute toxicity (inhal.), Category 3	H331		
Specific target organ toxicity — Repeated	H373		
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exposure, Category 2 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] T; R23/24/25 N; R50/53 R33

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing vapours, spray, dust, fume, gas.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor</li> <li>P311 - Call a POISON CENTER/doctor</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</li> </ul>

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Name	: DIPHENYLAMINE AR/ACS
CAS-No.	: 122-39-4
EC-No.	: 204-539-4
EC Index-No.	: 612-026-00-5

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Full text of R- and H-statements: see section 16

**Mixtures** 3.2. Not applicable **SECTION 4: First aid measures** 4.1. **Description of first aid measures** First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. : Immediately call a POISON CENTER/doctor. Take off immediately all contaminated First-aid measures after skin contact clothing. Wash with plenty of water/.... First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. Symptoms/effects after inhalation : Toxic if inhaled. Symptoms/effects after skin contact : Toxic in contact with skin. Symptoms/effects after ingestion : Toxic if swallowed. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. **SECTION 5: Firefighting measures** 5.1. **Extinguishing media** Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. : Do not use a heavy water stream. Unsuitable extinguishing media Special hazards arising from the substance or mixture 5.2. No additional information available Advice for firefighters 5.3. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel Emergency procedures : Evacuate unnecessary personnel. 6.1.2. For emergency responders Protective equipment : Use personal protective equipment as required. Emergency procedures : Ventilate area. 6.2. **Environmental precautions** Very toxic to aquatic life with long lasting effects. 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

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6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	<ul> <li>Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	al protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical	and chemical properties
Physical state	: Solid
Molecular mass	: 169.23 g/mol
Colour	: Cream coloured powder.
Odour	: floral odor.
Cucui	

: No data available

: No data available pН Relative evaporation rate (butylacetate=1) : No data available Melting point : 50 - 53 °C

Freezing point : No data available Boiling point : 302 °C Flash point : 153 °C : No data available Auto-ignition temperature

Odour threshold

Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1 mm Hg at 108°C
Relative vapour density at 20 °C	: 5.82
Relative density	: No data available
Density Solubility	: 1.16 g/cm³ : Water: Insoluble in water
Log Pow	: 3.5
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
IO.1.         Reactivity           No additional information available	
10.2. Chemical stability Stable under normal conditions.	
<b>10.3. Possibility of hazardous rea</b> No additional information available	actions
10.4. Conditions to avoid	
Air contact. Direct sunlight. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition p	products
No additional information available	
	ion
SECTION 11: Toxicological informat	
11.1. Information on toxicological	

: Not classified
: Not classified

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Reproductive toxicity STOT-single exposure	: Not classified : Not classified
STOT-repeated exposure Additional information	<ul><li>May cause damage to organs through prolonged or repeated exposure.</li><li>There are potential chronic health effects to consider</li></ul>
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms SECTION 12: Ecological information	: Toxic if swallowed. Toxic in contact with skin.

12.1.	Toxicity	
Ecology	/ - water	: Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability	
DIPHENYLAMINE AR/ACS (122-39-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

DIPHENYLAMINE AR/ACS (122-39-4)	
Log Pow 3.5	

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	5
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number	
UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077
UN-No. (ADN)	: 3077
UN-No. (RID)	: 3077
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (-)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III
Transport document description (ADN)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
Transport document description (RID)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
14.3. Transport hazard class(es)	

ADR	
Transport hazard class(es) (ADR)	
Danger labels (ADR)	



### IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG) :9 :9

:9 :9

:9 :9



### IATA

Transport hazard class(es) (IATA) Hazard labels (IATA)

:	9
•	5
:	

### ADN

Transport hazard class(es) (ADN)	
Danger labels (ADN)	

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### RID

Transport hazard class(es) (RID) Danger labels (RID)



: 9

: 9

14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	90 3077

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Tunnel restriction code (ADR)	: -
EAC code	: 2Z
- Transport by sea	
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP02, P002
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity	: 30kgG
(IATA)	
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L
- Inland waterway transport	
Classification code (ADN)	: M7
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T* B**
Equipment required (ADN)	: PP, A
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. ** * Only in the case of transport in bulk.
- Rail transport	
Classification code (RID)	: M7
Special provisions (RID)	: 274, 335, 375, 601
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: PP12, B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1, BK1, BK2, BK3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV, LGBV
Transport category (RID)	: 3

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Special provisions for carriage – Package (RID)	s : W13
Special provisions for carriage – Bulk (RID)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 90

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

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions DIPHENYLAMINE AR/ACS is not on the REACH Candidate List DIPHENYLAMINE AR/ACS is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

Germany		
Reference to AwSV	: Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV; ID No. 726)	
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)	
Netherlands		
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed	
SZW-lijst van mutagene stoffen	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed	
Denmark		
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct	

contact with the product

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### **SECTION 16: Other information**

#### Full text of R-, H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R33	Danger of cumulative effects
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ν	Dangerous for the environment
Т	Toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product