

Nitrobenzene

N10950-2.5L

Version 1.4

Revision Date 20.04.2021

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

1.1. Product identifier

Product name : Nitrobenzene
SDS-number : 000000021042
Type of product : Substance
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

Chemical name : nitrobenzene
Index-No. : 609-003-00-7
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 Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone	: (49) 5137-999 0	
For further information, please contact:	: PMTEU Product Stewardship: SafetyDataSheet@Honeywell.com	

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)
Country based Poison Control Center : see chapter 15.1

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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.
Acute toxicity Category 3 - Dermal
H311 Toxic in contact with skin.
Carcinogenicity Category 2
H351 Suspected of causing cancer.
Reproductive toxicity Category 1B
H360F May damage fertility.
Specific target organ toxicity - repeated exposure Category 1 - Blood
H372 Causes damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard Category 3
H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms	:											
Signal word	:	Danger										
Hazard statements	:	<table><tbody><tr><td>H301 + H311 + H331</td><td>Toxic if swallowed, in contact with skin or if inhaled.</td></tr><tr><td>H351</td><td>Suspected of causing cancer.</td></tr><tr><td>H360F</td><td>May damage fertility.</td></tr><tr><td>H372</td><td>Causes damage to organs through prolonged or repeated exposure.</td></tr><tr><td>H412</td><td>Harmful to aquatic life with long lasting effects.</td></tr></tbody></table>	H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.	H351	Suspected of causing cancer.	H360F	May damage fertility.	H372	Causes damage to organs through prolonged or repeated exposure.	H412	Harmful to aquatic life with long lasting effects.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.											
H351	Suspected of causing cancer.											
H360F	May damage fertility.											
H372	Causes damage to organs through prolonged or repeated exposure.											
H412	Harmful to aquatic life with long lasting effects.											
Precautionary statements	:	<table><tbody><tr><td>P201</td><td>Obtain special instructions before use.</td></tr><tr><td>P260</td><td>Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</td></tr><tr><td>P280</td><td>Wear protective gloves/protective clothing/eye protection/face protection.</td></tr><tr><td>P284</td><td>In case of inadequate ventilation wear</td></tr></tbody></table>	P201	Obtain special instructions before use.	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.	P280	Wear protective gloves/protective clothing/eye protection/face protection.	P284	In case of inadequate ventilation wear		
P201	Obtain special instructions before use.											
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.											
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P301 + P330 + P331	respiratory protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Special labelling of certain products : Restricted to professional users.

2.3. Other hazards

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
nitrobenzene	98-95-3 609-003-00-7 202-716-0	Acute Tox. 3; H301; Oral Acute Tox. 3; H331; Inhalation Acute Tox. 3; H311; Dermal Carc. 2; H351 Repr. 1B; H360F STOT RE 1; H372; Blood Aquatic Chronic 3; H412	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:

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First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.

Eye contact:

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

Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Call a physician.

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.

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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:

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air.

In case of fire hazardous decomposition products may be produced such as:

Carbon oxides
nitrogen oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
Ventilate the area.

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Pick for disposal in tightly closed containers
Use explosion-proof equipment.

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:

Exhaust ventilation at the object is necessary. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection. Vapours may form explosive mixtures with air.

Hygiene measures:

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Recommended preventive skin protection Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Further information on storage conditions:

Keep under nitrogen.

German storage class:

Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3. Specific end use(s)

no additional data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
nitrobenzene	EH40 WEL TWA	1 mg/m ³ 0,2 ppm		
nitrobenzene	EH40 WEL SKIN_DES			Can be absorbed through the skin.
nitrobenzene	EU ELV TWA	1 mg/m ³ 0,2 ppm		Indicative
nitrobenzene	EU ELV SKIN_DES			Can be absorbed through the skin.

TWA - Time weighted average
SKIN_DES - Skin designation:

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.
Do not breathe vapours or spray mist.

Engineering measures

Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.

Personal protective equipment

Respiratory protection:

In the case of vapour formation use a respirator with an approved filter.

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Hand protection:

Glove material: butyl-rubber

Break through time: 480 min

Glove thickness: 0,7 mm

Butoject® 898

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:

Safety goggles

Skin and body protection:

Wear suitable protective equipment.

Wear as appropriate:

Protective suit

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

molecular weight : 123,11 g/mol

Melting point/range : 5 - 6 °C

Boiling point/boiling range : 210 - 211 °C

Upper explosion limit : 1,8 %(V)

Lower explosion limit : 40 %(V)

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Flash point	: 88 °C
Auto-ignition temperature	: 482 °C
pH	: No data available
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: 66,7 hPa at 120 °C
Vapour pressure	: 0,3 hPa at 20 °C
Density	: 1,196 g/cm ³ at 25 °C

9.2 Other Information

no additional data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Heat, flames and sparks.

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10.5. Incompatible materials

Strong bases
Strong oxidizing agents
Strong reducing agents

10.6. Hazardous decomposition products

Carbon oxides
nitrogen oxides

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:

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

Acute inhalation toxicity:

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

Skin irritation:

Species: Rabbit
Result: slight irritation
Exposure time: 24 h

Eye irritation:

Species: Rabbit
Result: slight irritation
Exposure time: 24 h

Respiratory or skin sensitisation:

No data available

Repeated dose toxicity:

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

Carcinogenicity:

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

Germ cell mutagenicity:

Note: No data available

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Reproductive toxicity:

Note: No data available

Aspiration hazard:

No data available

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:

LC50

Species: Danio rerio (zebra fish)

Value: 92 mg/l

Exposure time: 96 h

LC50

Species: Pimephales promelas (fathead minnow)

Value: 44 mg/l

Exposure time: 96 h

Toxicity to aquatic plants:

EC50

Species: Pseudokirchneriella subcapitata (green algae)

Value: 51,6 mg/l

Exposure time: 72 h

Toxicity to aquatic invertebrates:

LC50

Species: Daphnia magna (Water flea)

Value: 27 mg/l

Exposure time: 48 h

12.2. Persistence and degradability

Biodegradability:

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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

For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number

ADR/RID:1662

IMDG:1662

IATA:1662

14.2 UN proper shipping name

ADR/RID:NITROBENZENE

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IMDG:NITROBENZENE
IATA:Nitrobenzene

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID:no

Marine pollutant: no

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
Substances of very high concern (SVHC)		This product does contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w).
Directive 2012/18/EC SEVESO III Listed in Regulation : H2: ACUTE TOXIC	Quantity: 50.000 kg Quantity: 200.000 kg	
Regulation (EC) No. 1907/2006, Annex XVII		This product contains an ingredient according to Annex XVII of the REACH Regulation 1907/2006/EC.

Poison Control Center

Country	Phone Number
Austria	+4314064343

Country	Phone Number
Liechtenstein	+41 442515151

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Belgium	070 245245
Bulgaria	(+359)29154233
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
	Mainz : 06131/19240
	Munich : 089/19240
Latvia	+37167042473

Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	808250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

Other inventory information

US. Toxic Substances Control Act
On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
All components of this product are on the Canadian DSL

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Japan. Kashin-Hou Law List

On the inventory, or 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)

On the inventory, or 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

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

nitrobenzene : H301 Toxic if swallowed.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H351 Suspected of causing cancer.
H360F May damage fertility.
H372 Causes damage to organs through prolonged or repeated exposure.
H412 Harmful 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

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DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative and 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.

This information should not constitute a guarantee for any specific product properties.
