# 1 Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>2-Aminonaphthalene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product number</td>
<td>198970</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>91-59-8</td>
</tr>
<tr>
<td>Index-No.</td>
<td>612-022-00-3</td>
</tr>
</tbody>
</table>

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

- Identified uses: Laboratory chemicals, Manufacture of substances
- Uses advised against:

## 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: J&K SCIENTIFIC LTD.
  - AEF 18/F Bldg-D Majesty Garden 6 Bei-Si-Huan-Zhong Rd. Beijing
  - 100029 China
  - Telephone/Fax: +86 10 8284 8833 / +86 10 8284 9933
  - E-mail address: jkinfo@jkchemical.com
- J&K SCIENTIFIC GmbH
  - Am Alten Kraftwerk 9, 71672 Marbach Germany
  - Telephone/Fax: +49 7144 896 5470 / +49 7144 896 5471
  - E-mail address: info@jk-scientific.de

**Preparation Information:** Product safety department

**Emergency telephone number:** +86 10 8284 2121(CN) +49 7144 896 5470(EU)

# 2 Hazards identification

## 2.1 Classification of the substance or mixture

### GHS08 Health hazard

**Carc. 1A** H350 May cause cancer.

### GHS07 Acute Tox. 4 H302 Harmful if swallowed.

### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- **Toxic**
  - Carc. Cat. 1
  - May cause cancer.
- **Harmful**
  - Harmful if swallowed.
- **Extremely flammable**
  - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
**Product name:** 2-Aminonaphthalene

### Information concerning particular hazards for human and environment:
Not applicable.

#### 2.2 Label elements

**GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

![GHS07](image)
![GHS08](image)

**Signal word**
Danger

**Hazard statements**
Harmful if swallowed.
May cause cancer.

**Precautionary statements**
Use only outdoors or in a well-ventilated area.
Obtain special instructions before use.
IF exposed or concerned: Get medical advice/attention.

### Classification system

**NFPA ratings (scale 0 - 4)**
- Health = 3
- Fire = 1
- Reactivity = 0

**HMIS-ratings (scale 0 - 4)**
- HEALTH
- FIRE
- REACTIVITY

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**Chemical characterization:** Substances

- **MF:** C10H9N
- **MW:** 143.19
- **CAS-No. Description:** 91-59-8 2-Aminonaphthalene
- **Identification number(s):**
  - **EC number:** 202-080-4
  - **Index number:** 612-022-00-3

### 4 First-aid measures

#### 4.1 Description of first aid measures

**General information:**
Consult a physician. Show this safety data sheet to the doctor in attendance.

**After inhalation:**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Printing date 09/10/2014 Reviewed on 09/30/2013 Version 4

Product name: 2-Aminonaphthalene

After skin contact: Wash off with soap and plenty of water. Consult a physician.
After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Information for doctor
Most important symptoms and effects, both acute and delayed
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed
no data available

5 Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx)

5.3 Advice for firefighters
Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Remove persons from danger area.

6.2 Methods and material for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.3 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

7.1 Handling
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.

Information about protection against explosions and fires
Keep respiratory protective device available.
Product name: 2-Aminonaphthalene

7.2 Storage
Conditions for safe storage, including any incompatibilities
Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Light sensitive. Store under nitrogen.

7.3 Specific end uses
no data available

8 Exposure controls/personal protection

8.1 Control parameters
Components with limit values that require monitoring at the workplace

91-59-8 2-Aminonaphthalene
PEL see 29 CFR 1910.1003
REL See Pocket Guide App. A
TLV L
Additional information: The lists that were valid during the creation were used as basis.

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:
Protective gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Tightly sealed goggles

Body protection:
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance
Form: Solid
Color: White
Odor: uncharacteristic
Odour threshold: Not determined.
pH-value: Not applicable.

Change in condition
Melting point/Melting range: 111-113 °C (232-235 °F)
Boiling point/Boiling range: 306 °C (583 °F)
Flash point: 157 °C (315 °F)

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature:
Decomposition temperature: Not determined.
Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits
Lower: Not determined.
Upper: Not determined.

Vapor pressure at 20 °C (68 °F): 0.007 hPa
Density at 20 °C (68 °F): 1.061 g/cm³ (8.854 lbs/gal)
Relative density Not determined.
Vapour density Not applicable.
Evaporation rate Not applicable.

Solubility in / Miscibility with
Water: Not determined.
Partition coefficient (n-octanol/water): Not determined.

Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.

Other information 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 dangerous reactions known.
10.4 Conditions to avoid no data available
10.5 Incompatible materials Strong oxidizing agents
Product name: 2-Aminonaphthalene

10.6 Hazardous decomposition products
No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Primary irritant effect
on the skin: No irritant effect.
on the eye: No irritating effect.
Sensitization: No sensitizing effects known.
Germ cell mutagenicity:
Carcinogenic categories
IARC (International Agency for Research on Cancer)
91-59-8 2-Aminonaphthalene: 1
NTP (National Toxicology Program)
91-59-8 2-Aminonaphthalene: K

11.2 Additional information
RTECS: QM2100000

12 Ecological information

12.1 Toxicity
Aquatic toxicity no data available

12.2 Persistence and degradability no data available

12.3 Behavior in environmental systems
Bioaccumulative potential: no data available
Mobility in soil: no data available
Ecotoxical effects:
Remark: Toxic for fish

12.4 Additional ecological information
General notes: Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects: no data available

13 Disposal considerations

13.1 Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging
Dispose of as unused product.
Product name: 2-Aminonaphthalene

13.3 Recommendation
Disposal must be made according to official regulations.

14 Transport information

14.1 UN-Number
DOT, ADR, IMDG, IATA UN1650

14.2 UN proper shipping name
DOT Beta-Naphthylamine, solid
ADR 1650 beta-Naphthylamine, solid, ENVIRONMENTALLY HAZARDOUS
IMDG, IATA Beta-NAPHTHYLAMINE, SOLID

14.3 Transport hazard class(es)
DOT
Class 6.1 Toxic substances.
Label 6.1

ADR
Class 6.1 Toxic substances
Label 6.1

IMDG, IATA
Class 6.1 Toxic substances.
Label 6.1

14.4 Packing group
DOT, ADR, IMDG, IATA II

14.5 Environmental hazards:
Environmentally hazardous substance, solid
Marine pollutant: Yes (PP)
Special marking (ADR): Symbol (fish and tree)
Special precautions for user Warning: Toxic substances
Danger code (Kemler): 60
EMS Number: F-A, S-A
Product name: 2-Aminonaphthalene

15 Regulatory information

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

Sara
Section 355 (extremely hazardous substances): Substance is not listed.
Section 313 (Specific toxic chemical listings): Substance is listed.

TSCA (Toxic Substances Control Act): Substance is not listed.

Proposition 65
Chemicals known to cause cancer: Substance is listed.
Chemicals known to cause reproductive toxicity for females: Substance is not listed.
Chemicals known to cause reproductive toxicity for males: Substance is not listed.
Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic categories
EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)
91-59-8 2-Aminonaphthalene: A1
NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is listed.
OSHA-Ca (Occupational Safety & Health Administration): Substance is listed.

GHS label elements
The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS07  GHS08

Signal word
Danger

Hazard statements
Harmful if swallowed.
May cause cancer.

Precautionary statements
Use only outdoors or in a well-ventilated area.
Obtain special instructions before use.
IF exposed or concerned: Get medical advice/attention.
Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Product name: 2-Aminonaphthalene

National regulations:
Information about limitation of use:
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16 Other information

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
PP: Severe Marine Pollutant
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)