



Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Printing date 09/10/2014

Version 4

Reviewed on 09/30/2013

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

1.1 Product identifier

Product name : 2-Aminonaphthalene
Product number : 198970
CAS-No. : 91-59-8
Index-No : 612-022-00-3

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

Identified uses : Laboratory chemicals, Manufacture of substances

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**

Not applicable.



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.

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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

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.

Classification system

NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3

Fire = 1

Reactivity = 0

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.



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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.

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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.



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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



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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

Ecotoxicological 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.

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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)

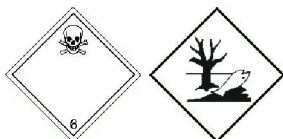
DOT



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

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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation":

UN1650, beta-Naphthylamine, solid, ENVIRONMENTALLY HAZARDOUS, 6.1, II

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.



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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)