

# o-Nitro Aniline CAS No 88-74-4

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1 Product identifiers

Product name : o-Nitro Aniline

CAS-No. : 88-74-4

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Pallav Chemicals & Solvents Pvt. Ltd

253, Shiv Shakti Industrial Estate, Opp Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai - 400050

**INDIA** 

Telephone : +91 22 4928 4000

Email : sales@pallavchemicals.com

1.4 Emergency telephone number

+91 22 4928 4000 (9:00am - 6:00 pm) [Office

Emergency Phone # : hours]

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No

1272/2008 Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311 Acute toxicity, Oral (Category 3), H301

Specific target organ toxicity - repeated exposure (Category 2), H373

Chronic aquatic toxicity (Category 3), H412

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

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

T Toxic R23/24/25

R33 R52/53

T Toxic R23/24/25

R33 R52/53

For the full text of the R-phrases mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008



Signal word Danger

Hazard statement(s)

Toxic if swallowed. H301

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Avoid release to the environment. P273

P280 Wear protective gloves/ protective clothing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ P301 + P310

physician.

none

P311 Call a POISON CENTER or doctor/ physician.

Supplemental Hazard

Statements

#### 2.30ther hazards - none

# **SECTION 3: Composition/information on ingredients**

#### 3.1Substances

C 6H6N2O2 Formula Molecular Weight 138,13 g/mol CAS-No. 88-74-4 EC-No. 201-855-4 Index-No. 612-012-00-9

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Classification Concentration Component

o-Nitroaniline

Acute Tox. 3; STOT RE 2; Aquatic Chronic 3; H301 + H311 + H331, H373, H412

# Hazardous ingredients according to Directive 1999/45/EC

Component Concentration Classification

o-Nitroaniline

T. . R23/24/25 - R33 -R52/53R23/24/25 - R33 -

R52/53

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment

needed no data available

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

## Suitable extinguishing media

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

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

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

# 7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Components with workplace control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

# Personal protective equipment

# Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **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.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline b) Odour no data available c) Odour Threshold no data available Ha (b no data available

e) Melting point/freezing

point

Melting point/range: 70 - 73 °C - lit.

Initial boiling point and

boiling range

284 °C - lit.

167,0 °C - closed cup g) Flash point

h) Evapouration rate no data available Flammability (solid, gas) no data available i) Upper/lower no data available

flammability or explosive limits

k) Vapour pressure no data available Vapour density no data available m) Relative density no data available n) Water solubility no data available o) Partition coefficient: nlog Pow: 5

octanol/water

p) Auto-ignition no data available temperature

q) Decomposition no data available temperature

no data available Viscosity

s) Explosive properties no data available

t) Oxidizing properties no data available

## 9.2 Other safety information

no data available

# **SECTION 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 data available

# 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - rat - 1.600 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold.

LC50 Inhalation - rat - 4,0 h - > 2.554,29 mg/m3

Remarks: Respiratory disorder Nutritional and Gross Metabolic:Weight loss or decreased weight gain. Nutritional and Gross Metabolic:Changes in:Body temperature decrease.

## Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation

no data available

# Respiratory or skin sensitisation

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

#### Germ cell mutagenicity

no data available

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

# Reproductive toxicity

no data available

# Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

# **Aspiration hazard**

no data available

#### **Additional Information**

RTECS: BY6650000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood -

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to daphnia and Immobilization EC50 - Daphnia magna (Water flea) - 4,89 mg/l - 48 h other aquatic invertebrates

#### 12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

Bioaccumulation Danio rerio (zebra fish) - 96 h

- 0,028 mg/l

Bioconcentration factor (BCF): 8,1

#### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

Toxic to aquatic life.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

# 14.1 UN number

ADR/RID: 1661 IMDG: 1661 IATA: 1661

# 14.2 UN proper shipping name

ADR/RID: NITROANILINES

IMDG: NITROANILINES (o-, m-, p-)

IATA: Nitroanilines

# 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 IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

no data available

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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

#### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Aquatic Chronic Chronic aquatic toxicity H301 Toxic if swallowed.

H301 + H311 + Toxic if swallowed, in contact with skin or if inhaled

H331

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

# Full text of R-phrases referred to under sections 2 and 3

T Toxic

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R33 Danger of cumulative effects.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.