

Revision Date 24-Nov-2010

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Description:** N,N-Dimethyl-4-nitrosoaniline  
**Cat No.** 116490000; 116490250; 116491000  
**Synonyms** 4-Nitroso-N,N-dimethylaniline

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

**Recommended Use** Laboratory chemicals  
**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

**Company**

Acros Organics BVBA  
 Janssen Pharmaceuticaaan 3a  
 2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

**Emergency Telephone Number**

For information in the US, call: 800-ACROS-01  
 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99  
 Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300  
 CHEMTREC Phone Number, Europe: 703-527-3887

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**REGULATION (EC) No 1272/2008**

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2
Self-heating substances/mixtures.	Category 1

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

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

**Symbol(s)** F - Highly flammable  
 T - Toxic

**R -phrase(s)** R11 - Highly flammable  
 R33 - Danger of cumulative effects

**Risk Combination Phrases** R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

## 2. HAZARDS IDENTIFICATION

### Label Elements



### Signal Word

**Danger**

### Hazard Statements

H373 - May cause damage to organs through prolonged or repeated exposure  
 H301 - Toxic if swallowed  
 H331 - Toxic if inhaled  
 H311 - Toxic in contact with skin  
 H251 - Self-heating; may catch fire

### Precautionary Statements - EU (§28, 1272/2008)

P235 + P410 - Keep cool. Protect from sunlight  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray

### Other Hazards

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
p-Nitrosodimethylaniline 138-89-6	EEC No. 205-343-1	99	138-89-6	F; R11 T; R23/24/25 R33	Self-heat. 1 (H251) STOT RE 2 (H373) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331)	-

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

## 4. FIRST AID MEASURES

### Description of first aid measures

#### **Eye Contact**

Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

#### **Skin Contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Immediate medical attention is required

#### **Ingestion**

Call a physician immediately Clean mouth with water

#### **Inhalation**

Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Immediate medical attention is required

#### **Notes to Physician**

Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Water spray Carbon dioxide (CO<sub>2</sub>) Dry chemical chemical foam

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### Special hazards arising from the substance or mixture

Flammable Dust can form an explosive mixture in air Contact with water liberates toxic gas Water reactive Combustible material Produce flammable gases on contact with water

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

### Environmental precautions

Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

Wear self-contained breathing apparatus and protective suit Remove all sources of ignition Use spark-proof tools and explosion-proof equipment Sweep up or vacuum up spillage and collect in suitable container for disposal Do not let this chemical enter the environment

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not breathe dust Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Remove and wash contaminated clothing before re-use Do not ingest Use only in area provided with appropriate exhaust ventilation Wash thoroughly after handling Use explosion-proof equipment Use only non-sparking tools

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from heat and sources of ignition Flammables area Keep away from water

Specific End Uses**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parametersExposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controlsEngineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment

Personal protective equipmentEye Protection

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State

Powder, Solid

Appearance

Green

odor

odorless

pH

No information available.

Boiling Point/Range

No information available.

Melting Point/Range

83 - 86°C / 181.4 - 186.8°F

Flash Point

No information available.

Water Solubility

Insoluble

Specific Gravity

1.145 @ 20°C

Molecular Formula

C8 H10 N2 O

Molecular Weight

150.18

**10. STABILITY AND REACTIVITY**ReactivityChemical Stability

Stable under normal conditions.

Possibility of Hazardous ReactionsHazardous Polymerization

No information available.

Hazardous Reactions .

No information available.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

**Product Information** No acute toxicity information is available for this product

#### **Component Information**

#### Chronic Toxicity

**Carcinogenicity** There are no known carcinogenic chemicals in this product

#### **Sensitization**

No information available.

#### **Mutagenic Effects**

No information available

#### **Reproductive Effects**

No information available.

#### **Developmental Effects**

No information available.

#### **Target Organs**

No information available.

#### **Other Adverse Effects**

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

#### **Endocrine Disruptor Information**

None known

## 12. ECOLOGICAL INFORMATION

#### Toxicity

**Ecotoxicity effects** Do not empty into drains

#### Persistence and degradability

No information available

#### Bioaccumulative potential

No information available.

#### Mobility in soil

No information available.

#### Results of PBT and vPvB assessment

#### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from Residues / Unused** Dispose of in accordance with local regulations

#### **Products**

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

**IMDG/IMO**

**UN-No** 1369  
**Hazard Class** 4.2  
**Packing Group** II  
**Proper Shipping Name** p-NITROSODIMETHYLANILINE

**ADR**

**UN-No** 1369  
**Hazard Class** 4.2  
**Packing Group** II  
**Proper Shipping Name** p-NITROSODIMETHYLANILINE

**IATA**

**UN-No** 1369  
**Hazard Class** 4.2  
**Packing Group** II  
**Proper Shipping Name** p-NITROSODIMETHYLANILINE

## 15. REGULATORY INFORMATION

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

**International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
p-Nitrosodimethylaniline	205-343-1	-		X	X	-	X	-	X	X	-

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

**Chemical Safety Assessment**

## 16. OTHER INFORMATION

**Text of R phrases mentioned in Section 2-3**

R11 - Highly flammable

R33 - Danger of cumulative effects

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

**16. OTHER INFORMATION**

Revision Date 24-Nov-2010

Revision Summary Not applicable

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

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

End of Safety Data Sheet