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# **Material Safety Data Sheet**

Version 4.3 Revision Date 02/22/2013 Print Date 10/18/2013

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: trans-\u03b3-Nitrostyrene

Product Number Brand

N26806 Aldrich

Supplier

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA

Telephone

+1 800-325-5832 +1 800-325-5052

Emergency Phone # (For

(314) 776-6555

both supplier and manufacturer)

Preparation Information

Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

### 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

**OSHA Hazards** Irritant

# **GHS Classification**

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

### GHS Label elements, including precautionary statements

Pictogram

Signal word

Warning

Hazard statement(s)

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

2

0

0

0

Precautionary statement(s)

P261

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification** 

Health hazard: Flammability: Physical hazards:

**NFPA Rating** 

Health hazard: 2 0

Reactivity Hazard:

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Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation.

Skin Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: trans-1-Nitro-2-phenylethylene

trans-beta-Nitrostyrene

Formula Molecular Weight : C8H7NO2 : 149.15 g/mol

Component Concentration trans-B-Nitrostyrene CAS-No. 5153-67-3

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

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

# 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

# Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

# Environmental precautions

Do not let product enter drains.

### 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.

### 7. HANDLING AND STORAGE

### 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. Normal measures for preventive fire protection.

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### Conditions for safe storage

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

Recommended storage temperature: 2 - 8 ℃

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle with gloves, Gloves must be inspected prior to use. Use proper glove removal technique (without touching olove'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.

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form

crystalline

Colour

yellow

### Safety data

pΗ

no data available

Melting

Melting point/range: 55 - 58 ℃ (131 - 136 ℉) - lit.

point/freezing point

Boiling point Flash point

250 - 260 °C (482 - 500 °F) - lit.

no data available no data available

Auto-ignition

Ignition temperature

Lower explosion limit

temperature

no data available

no data available

Upper explosion limit

no data available

Vapour pressure

no data available

Water solubility

no data available no data available

Partition coefficient:

no data available

n-octanol/water

no data available

Relative vacour

Density

density

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Odour

no data available

Odour Threshold

no data available

Evapouration rate

no data available

# 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx) Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral LD50

no data available

# Inhalation LC50

Dermal LD50

no data available

# Other information on acute toxicity

no data available

## Skin corrosion/irritation

ne data available

# Serious eye damage/eye irritation

no data available

# Respiratory or skin sensitisation

no data available

# 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.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

# Reproductive toxicity

no data available

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# Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### Aspiration hazard

no data available

### Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Skin May be harmful if swallowed.

Eves

May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.

2,00

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: WL5460000

# 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

# Bioaccumulative potential

no data available

### Mobility in soil

no data available

# PBT and vPvB assessment

no data available

### Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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# 15. REGULATORY INFORMATION

### **OSHA Hazards**

irdant

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313,

# SARA 311/312 Hazards

Acute Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

trans-β-Nitrostyrene

CAS-No. 5153-67-3 Revision Date

# **New Jersey Right To Know Components**

CAS-No.

Revision Date

trans-β-Nitrostyrene

5153-67-3

Hevision Date

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### 16. OTHER INFORMATION

### **Further Information**

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