



SAFETY DATA SHEET

Preparation Date: 12/17/2014 Revision Date: Not Applicable Revision Number: Not Applicable

Product identifier

Product code: D1232

Product Name: 3,4-Diaminotoluene

Other means of identification

Synonyms: 3,4-Toluenediamine; Tolylene-3,4-diamine

CAS #: C7H10N2

RTECS # XS9820000

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute toxicity - Oral | Category 4 |
|---|-------------|
| Acute toxicity - Dermal | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |

Label elements

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Warning

Hazard statements

Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eve irritation





Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific measures (see .? on this label)

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

| Components | CAS-No. | Weight % | Trade Secret |
|--------------------|----------|----------|--------------|
| 3,4-Diaminotoluene | 496-72-0 | 100 | * |
| 496-72-0 | | | |

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

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4. FIRST AID MEASURES

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes eye irritation. Eye contact may result in redness or pain. Causes skin irritation. Skin

contact may result in redness, pain, inflammation, itching, scaling. Harmful by inhalation, in

contact with skin and if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides

Specific hazards: Container explosion may occur under fire conditions or when

heated

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the

material.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eves

and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all

sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth). Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Air sensitive. Store under inert gas.

Incompatible Materials:

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Components | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|--------------------|------|-------|-------|------------|
| 3,4-Diaminotoluene | None | None | None | None |
| 496-72-0 | | | | |

Canada

| Components | Alberta | British Columbia | Ontario | Quebec |
|--------------------------------|---------|------------------|---------|--------|
| 3,4-Diaminotoluene 496-72-0 | None | None | None | None |

Australia and Mexico

| Components | Australia | Mexico |
|--------------------|-----------|--------|
| 3,4-Diaminotoluene | None | None |
| 496-72-0 | | |

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Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local

exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Effective dust mask. Wear respirator with dust filter...

Avoid contact with skin, eyes and clothing. Wash hands before breaks and Hygiene measures:

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Crystals with lumps. White. Pale yellow to reddish-amber.

Odor: Taste Molecular/Formula weight:

No information available No information available 122.17

Formula: Flammability: Flash point (°C): C7H10N2 No information available No data available

Flashpoint (°C/°F): Flash Point Tested according to: Lower Explosion Limit (%): No information available. No information available Not available

Upper Explosion Limit (%): Autoignition Temperature (°C/°F): :Ha

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

90°C/194°F 265°C/509°F No information available

Bulk density: Specific gravity: Vapor pressure @ 20°C (kPa):

No information available No information available No information available

Density (g/cm3): **Evaporation rate:** Vapor density:

No information available No information available No information available

VOC content (g/L): Partition coefficient Odor threshold (ppm): No information available No information available (n-octanol/water):

No information available

Viscosity: Miscibility: Solubility:

No information available No information available Very soluble in water

Soluble in Methanol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

5/11 Product code: D1232 Product name: 3.4-Diaminotoluene

Chemical stability

Stability: Sensitive to air.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to air.

Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

3.4-Diaminotoluene - 496-72-0

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = 100 mg/kg, subcutaneous, rabbit, LDLo

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

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LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. Harmful in contact with skin.

Eye Contact: Causes serious eye irritation.

InhalationHarmful by inhalation.IngestionHarmful if swallowed.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

| Components | ACGIH - | IARC | NTP | OSHA HCS - | Australia - Prohibited | Australia - Notifiable |
|--------------------|-------------|------------|------------|-------------|------------------------|------------------------|
| | Carcinogens | | | Carcinogens | Carcinogenic | Carcinogenic |
| | | | | _ | Substances | Substances |
| 3,4-Diaminotoluene | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:

Teratogenic Effects:

No information available
No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

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13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

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

| Components | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------------|---------------------------|---------------------------|------------------------------|------------------------|
| 3,4-Diaminotoluene | None | None | None | None |

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available No information available Subsidiary Risk: No information available

Packing Group: None

ERG No: No information available

Marine Pollutant

DOT RQ (lbs):

No data available

No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available Packing Group: No information available **Description:** No information available IMDG Page: No information available **Marine Pollutant** No information available MFAG: No information available

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14. TRANSPORT INFORMATION

Maximum Quantity: No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

| Components | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|--------------------|-----------|----------------------|------------------------|---------------------|---------|---------------------|-------------------|
| 3,4-Diaminotoluene | Present | Present KE- 33937 | Present | Present (3)- 126 | Present | Present | Present 207-826-2 |

U.S. Regulations

3,4-Diaminotoluene

Massachusetts RTK: Present

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present New York Release Reporting - List of Hazardous Substances:

10 lb RQ 1 lb RQ

Louisana Reportable Quantity List for Pollutants: 10lbfinal RQ

4.54kgfinal RQ

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components | Carcinogen | | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|--------------------|------------|------------|-------------------------------|----------------------------------|
| 3,4-Diaminotoluene | Not Listed | Not Listed | Not Listed | Not Listed |

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CERCLA/SARA

| • | CERCLA - Hazardous Substances and their Reportable Quantities | Hazardous | Hazardous | Chemical Category | Section 313 - Reporting de minimis |
|----|---|-----------|-----------|--------------------------|------------------------------------|
| ., | 10 lb final RQ 4.54 kg final RQ | None | None | None | None |

U.S. TSCA

| • | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|--------------------|---|--|
| 3,4-Diaminotoluene | Not Applicable | Not Applicable |

Canada

WHMIS hazard class:

D2A Very toxic materials D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

| Components | WHMIS Ingredient Disclosure List - |
|--------------------|------------------------------------|
| 3,4-Diaminotoluene | 0.1 % |

Inventory

| Components | | Canada (NDSL) |
|--------------------|------------|---------------|
| 3,4-Diaminotoluene | Not Listed | Present |

| Components | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Manditory |
|--------------------|------------------------------------|---|
| | | Reporting |
| 3,4-Diaminotoluene | Not listed | Not listed |

EU Classification

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

| Components | Classification | Concentration Limits: | Safety Phrases |
|--------------------|----------------|-----------------------|----------------|
| 3,4-Diaminotoluene | | No information | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

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| Indication | of danger: |
|------------|------------|
|------------|------------|

None.

16. OTHER INFORMATION

Preparation Date:12/17/2014Revision Date:Not ApplicablePrepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

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