

SAFETY DATA SHEET

Preparation Date: 09/24/2019

Revision date 09/24/2019

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: D1434
Product Name: 1,3-DIETHYLBENZENE

Other means of identification

Synonyms: Benzene, 1,3-diethyl-
 m-Diethylbenzene
 m-Ethylethylbenzene

CAS #: 141-93-5
RTECS # CZ5620000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against 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 number Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| | |
|--|------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable liquids | Category 3 |

Label elements

Warning

Hazard statements

Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation

Flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing mist or vapors
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

In case of fire: Use CO₂, dry chemical, or foam to extinguish.
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 attention.
If skin irritation occurs: Get medical attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No | Weight-% |
|--------------------|----------|----------|
| 1,2-Diethylbenzene | 141-93-5 | 100 |

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes 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. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

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. Alcohol-resistant foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Specific hazards Flammable. May be ignited by heat, sparks or flames. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use clean non-sparking tools to collect absorbed material. 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. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. 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 vapors or spray mist. When using do not smoke. 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. Keep away from heat and sources of ignition. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Component | CAS No | OSHA | NIOSH | ACGIH | AIHA WEEL |
|-----------|--------|------|-------|-------|-----------|
|-----------|--------|------|-------|-------|-----------|

| | | | | | |
|--------------------|----------|------|------|------|------|
| 1,2-Diethylbenzene | 141-93-5 | None | None | None | None |
|--------------------|----------|------|------|------|------|

Canada

| Component | CAS No | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|--------------------|----------|------------------|---------------------------|------------------|-----------------|
| 1,2-Diethylbenzene | 141-93-5 | None | None | None | None |

Australia and Mexico

| Component | CAS No | Australia | Mexico |
|--------------------|----------|-----------|--------|
| 1,2-Diethylbenzene | 141-93-5 | None | None |

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields.
- Skin and body protection:** Long sleeved clothing
Chemical resistant apron
Gloves
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|--|--|
| Physical state: Liquid | Appearance: No information available. | Color: Colorless. |
| Odor: No information available. | Taste No information available. | Formula C10H14 |
| Molecular/Formula weight (g/mole): 134.22 | Flammability (solid, gas) no data available | Flashpoint (°C/°F): 50°C/ 122°F |
| Flash Point Tested according to: Closed cup | Autoignition Temperature (°C/°F): 450°C/ 842°F | Lower Explosion Limit (%): No information available |
| Upper Explosion Limit (%): No information available | Melting point/range(°C/°F): -84 °C/ -119.2°F | Decomposition temperature(°C/°F): No information available |
| Boiling point/range(°C/°F): 181°C/ 357°F | Bulk density: No information available | Density (g/cm3): No information available |
| Specific gravity: 0.8640-0.8670 | pH No information available | Vapor pressure @ 20°C (kPa): No information available |

Evaporation rate:
No information available

Vapor density:
4.62

VOC content (g/L):
No information available

Odor threshold (ppm):
No information available

**Partition coefficient
(n-octanol/water):**
4.2

Viscosity:
No information available

Miscibility:
No information available

Solubility:
No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

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

Incompatible Materials: Oxidizing agents

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

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:
Skin. Eyes. Inhalation.

Acute Toxicity

Component Information

1,2-Diethylbenzene

CAS No 141-93-5

LD50/oral/rat = > 13314 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = 3 gm/kg Oral LD50 Rabbit

Product Information

Product code: D1434

Product name:
1,3-DIETHYLBENZENE

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LD50/oral/rat =
Value - Acute Toxicity = > 13314 mg/kg

LD50/oral/mouse =
Value - Acute Tox = No information available

LD50/dermal/rabbit
Value - Acute Toxicity = No information available

LD50/dermal/rat
VALUE - Acute Tox = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

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.
Eye Contact: Causes serious eye irritation.
Inhalation May cause respiratory irritation.
Ingestion May cause digestive (gastrointestinal) tract irritation.
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.

| Component | CAS No | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|--------------------|----------|------------|---------------------|------------|------------------------|--|--|
| 1,2-Diethylbenzene | 141-93-5 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure respiratory system.
STOT - repeated exposure No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.
1,2-Diethylbenzene - 141-93-5
Fish LC50: 4.05 - 4.25mg/L (96h, Pimephales promelas)
Persistence and degradability: No information available
Bioaccumulative potential: No information available.
Mobility in soil No information available
Other adverse effects No information available.

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

| Component | CAS No | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--------------------|----------|------------------------|------------------------|------------------------|------------------------|
| 1,2-Diethylbenzene | 141-93-5 | None | None | None | None |

14. TRANSPORT INFORMATION

DOT
UN-No: UN2049
Proper Shipping Name: Diethylbenzene
Hazard Class 3
Subsidiary Class No information available
Packing group: III
Emergency Response Guide Number 130
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions B1, IB3, T2, TP1
Symbol(s): No information available

Description: UN2049, Diethylbenzene, 3, III

TDG (Canada)

UN-No: UN2049
Proper Shipping Name: Diethylbenzene
Hazard Class 3
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No Information available
Description: UN2049, Diethylbenzene, 3, III

ADR

UN Number UN2049
Proper Shipping Name: Diethylbenzene
Transport hazard class(es) 3
Packing group III
Subsidiary Risk: No information available
Description: UN2049, Diethylbenzene, 3, III

IMDG

UN-No: UN2049
Proper Shipping Name: Diethylbenzene
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No information available
EMS: F-E
Description UN2049, Diethylbenzene, 3, III

RID

UN Number UN2049
Proper Shipping Name: Diethylbenzene
Transport hazard class(es) 3
Subsidiary Risk: No information available
Packing group III
Description: UN2049, Diethylbenzene, 3, III

ICAO (air)

UN-No: UN2049
Proper Shipping Name: Diethylbenzene
Hazard Class 3
Subsidiary Risk: No information available
Packing Group: III
Description: UN2049, Diethylbenzene, 3, III

IATA

UN Number UN2049
Proper Shipping Name: Diethylbenzene
Transport hazard class(es) 3
Subsidiary Risk: No information available
Packing group III
Precautionary Statements - Response 3L
Special Provisions No information available
Description: UN2049, Diethylbenzene, 3, III

15. REGULATORY INFORMATION

International Inventories

| Component | CAS No | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | China IECSC | Australia (AICS) | EINECS-No. |
|--------------------|----------|---------------|---------------------|---------------------|--------------------------|-------------|------------------|----------------------|
| 1,2-Diethylbenzene | 141-93-5 | PresentACTIVE | Present KE-10436 | Present | Present (3)-60,(3)-13 | Present | Not listed | Present 205-511-4 |

U.S. Regulations

1,2-Diethylbenzene

Massachusetts RTK: Present

Pennsylvania RTK: Present

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)

| Component | CAS No | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|--------------------|----------|------------|------------------------|----------------------------|-------------------------------|
| 1,2-Diethylbenzene | 141-93-5 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| Component | CAS No | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|--------------------|----------|---|---|--|---------------------------------|------------------------------------|
| 1,2-Diethylbenzene | 141-93-5 | None | None | None | None | None |

U.S. TSCA

| Component | CAS No | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|--------------------|----------|---|--|
| 1,2-Diethylbenzene | 141-93-5 | Not Applicable | Not Applicable |

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

| Component | CAS No | Canada (DSL) | Canada (NDSL) |
|--------------------|----------|--------------|---------------|
| 1,2-Diethylbenzene | 141-93-5 | Not Listed | Present |

| | | |
|--------------------|----------|---|
| Component | CAS No | CEPA Schedule I - Toxic Substances |
| 1,2-Diethylbenzene | 141-93-5 | Not listed |
| Component | CAS No | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| 1,2-Diethylbenzene | 141-93-5 | Not listed |

EU Classification

EU GHS - SV - CLP 1272/2008

| | | |
|--------------------|----------|-------------------------------|
| Component | CAS No | EU GHS - SV - CLP (1272/2008) |
| 1,2-Diethylbenzene | 141-93-5 | |

EU - CLP (1272/2008)

R-phrase(s)

R10 - Flammable
R36 - Irritating to eyes
R38 - Irritating to skin

S -phrase(s)

S 7 - Keep container tightly closed.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36 - Wear suitable protective clothing
S16 - Keep away from sources of ignition - No smoking
S15 - Keep away from heat

| Component | CAS No | Classification | Concentration Limits: | Safety Phrases |
|--------------------|----------|----------------|-----------------------|----------------|
| 1,2-Diethylbenzene | 141-93-5 | | No information | |

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

Indication of danger:

Flammable
Xi - Irritant

Xi



16. OTHER INFORMATION

Preparation Date: 09/24/2019
Revision date: 09/24/2019
Prepared 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

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End of Safety Data Sheet