



MATERIAL SAFETY DATA SHEET

NFPA HMIS Personal Protective Equipment



Health Hazard	1
Fire Hazard	1
Reactivity	0



See Section 8.

1. CHEMICAL PRODUCT A	ND COMPANY IDENTIFICATION
Product code:	S2402
Product Name:	TRANS-STILBENE, SCINTILLATION GRADE
Chemical Name:	No information available
Synonyms:	trans-Diphenylethene
	trans-1,2-Diphenylethene
	(E)-1,2-Diphenylethylene
	trans-alpha,beta-Diphenylethylene
	trans-1,2-Diphenylethylene
	(E)-1,1'-(1,2-Ethenediyl)bisbenzene
	Benzene, 1,1'-(1,2-ethenediyl)bis-, (E)- (9CI)
	(E)-Stilbene
	trans-1,1'-(1,2-Ethenediyl)bis(benzene)
Recommended use:	Dyes. In manufacturer of optical bleaches.
CAS #:	103-30-0
Formula:	C14-H12
RTECS #	WJ4926500
CI#:	Not available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.
	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:	Regina Wachenheim (East Coast)
Contact Person:	Martin LaBenz (West Coast)

2. HAZARDS IDENTIFICATION

Product code: S2402

Product name: TRANS-STILBENE, SCINTILLATION GRADE

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION! May be harmful if swallowed. May cause skin and eye irritation. May cause irritation of respiratory tract.

Odor:Physical state:Appearance:Color:No information available.Solid.Crystalline. Crystals.White.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:

May cause skin irritation.

Eye Contact:

Contact with eyes may cause irritation.

Inhalation:

May cause irritation of respiratory tract.

Ingestion:

May be harmful if swallowed. May cause digestive tract irritation. It may affect the kidneys. May affect the adrenal gland.

Chronic Potential Health Effects:

Component Carcinogen Status:
trans-Stilbene
103-30-0 (100)

No information available

Target Organs: No information available

Mutagenic Effects: No information available

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
trans-Stilbene	103-30-0	100

Product code: S2402 Product name: TRANS-STILBENE, 2/10

. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

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

clothes and shoes. Get medical attention if irritation develops. Consult a physician if

necessary.

Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If **Eye Contact:**

symptoms persist, call a physician.

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

give oxygen. Get medical attention.

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

unconscious person. Obtain medical attention.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F):	No information available.

Flash Point Tested according to:

Not available

Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available

Autoignition Temperature (°C/°F): No information available

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

foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

May be combustible at high temperatures. Specific hazards:

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

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

and full protective gear

Specific Methods: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Product code: S2402 3/10 Product name: TRANS-STILBENE,

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not let this chemical enter the environment. Prevent entry into waterways, sewers.

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. 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. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Storage

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.

Incompatible Materials:

Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 limit.

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...

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.

National occupational exposure limits

United States

U.S Occupational Exposure Limits: Not determined

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
trans-Stilbene - 103-30-0				

Canada

Product code: S2402 Product name: TRANS-STILBENE, SCINTILLATION GRADE 4 / 10

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
trans-Stilbene	None	None	None	None
103-30-0				

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
trans-Stilbene	None	None
103-30-0		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:Solid.Crystalline. Crystals.White.

Odor: Taste Molecular/Formula weight:

No information available. No information available 180.25

Flash point (°C): Lower Explosion Limit (%): Upper Explosion Limit (%): Not applicable No information available No information available

Autoignition Temperature (°C/°F):Melting point/range(°C/°F):Boiling point/range(°C/°F):No information available122-125 °C/252-257 °F305-307 °C/581-585 °F

pH: Decomposition temperature(°C/°F): Specific gravity:

No information available No information available 0.9707

Density (g/cm3): Bulk density: Vapor pressure @ 20°C (kPa):

1.14 No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Miscibility:

No information available (n-octanol/water): No information available

4.81

Solubility:

Insoluble in water Freely soluble in Benzene Freely soluble in Ether

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Avoid dust formation.

Incompatible Materials: Strong oxidizing agents.

Hazardous decomposition Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid

smoke and irritating fumes.

Possibility of Hazardous

Reactions:

products:

No information available

Polymerization: Hazardous polymerisation does not occur

Product code: S2402 Product name: TRANS-STILBENE, SCINTILLATION GRADE 5 / 10

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

trans-Stilbene - 103-30-0

LD50/oral/rat = No information available

LD50/oral/mouse = 920 mg/kg Oral LD50 Mouse

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 = No information available

Product Information

LC50/inhalation/rat No information available

LC50/Inhalation/mouse No information available

LD50/dermal/rabbit No information available

LD50/dermal/rat No information available

LD50/oral/mouse = 920mg/kg

LD50/oral/rat No information available

Local Effects

Skin irritation: May cause skin irritation.

Eye irritation: Contact with eyes may cause irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May be harmful if swallowed. May cause digestive (gastointestinal) tract irritation.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated

ingestion may affect the adrenal gland. Prolonged or repeated ingestion may affect

metabolism (changes in Ca).

Carcinogenic effects: Not considered carcinogenic.

Components	NTP	IARC	OSHA HCS -	ACGIH - Carcinogens	Australia - Prohibited	Australia - Notifiable
			Carcinogens		Carcinogenic	Carcinogenic
					Substances	Substances
trans-Stilbene	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: No information available

Reproductive Effects: May cause adverse reproductive effects based on animal test data

Experiments have shown reproductive toxicity effects on laboratory animals

Product code: S2402 Product name: TRANS-STILBENE, SCINTILLATION GRADE 6 / 10

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available.

Aquatic toxicity: No information available

Mobility: Expected to be immobile in soil based on estimated Koc.

Persistence and degradability: No information available

Bioaccumulative potential: an estimated BCF of 1,000 from its log Kow and a regression-derived equation,

suggests the potential for bioconcentraton in aquatic organisms is very high.

13. DISPOSAL CONSIDERATIONS

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
trans-Stilbene	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available Hazard Class: No information available

Packing Group: None

Subsidiary Risk: Not applicable
Marine Pollutant No data available

ERG No: No information available DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

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

ADR

UN-No: 3077

(exception <5 liters for liquids and < 5 kilogram for solids - per single packagings or

combination packagings per inner packaging)

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (trans-stilibene)

Product code: S2402 Product name: TRANS-STILBENE, 7/10

Hazard Class: 9
Packing Group: III

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available
No information available
No information available

IMO / IMDG

UN-No: 3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s (trans-stilbene)

Hazard Class: 9
Packing Group: III

Subsidiary Risk:

Description:

IMDG Page:

Marine Pollutant

MFAG:

No information available

RID

UN-No: 3077

(exception <5 liters for liquids and < 5 kilogram for solids - per single packagings or

combination packagings per inner packaging)

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (trans-stilbene)

Hazard Class: 9
Packing Group: III

Subsidiary Risk:
Classification Code:
Description:

No information available
No information available
No information available

ICAO

UN-No: 3077

Proper Shipping Name: Environmentally hazardous subtance, solid, n.o.s. (trans-stilbene)

Hazard Class: 9
Packing Group: III

Subsidiary Risk:No information availableDescription:No information available

IATA

UN-No: 3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (trans-stilbene)

Hazard Class: 9
Packing Group: III

Subsidiary Risk:No information availableDescription:No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	1.1.	KOREA KECL	Japan ENCS	CHINA	Australia	EINECS-No.
		(PICCS)				(AICS)	
trans-Stilbene	Present	Present	Not present	Not present	Not present	Present	Present 203-098-5

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcment 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	Developmental Toxicity		Female Reproductive Toxicity:
trans-Stilbene	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their		Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs	,	
trans-Stilbene	None	None	None	None	None

U.S. TSCA

<u>-</u>	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
trans-Stilbene	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

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.

Inventory

Components	Canada (DSL)	Canada (NDSL)
trans-Stilbene	Present	Not Listed

Components	0	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
trans-Stilbene	Not listed	Not listed

EU Classification

R-phrase(s)

R22 - Harmful if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S -phrase(s)

S46 - If swallowed, seek medical advice immediately and show this container or label.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

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

Product code: S2402 Product name: TRANS-STILBENE, 9/10 SCINTILLATION GRADE

Indication of danger:

Product code: S2402

Xn - Harmful.

N - Dangerous for the environment.





16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 21-Jun-2013

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product name: TRANS-STILBENE,