

Revision Date: 11-13-2014

# SAFETY DATA SHEET

# 1. Identification

**Product identifier: TRYPAN BLUE** 

Other means of identification

Product No.: X242

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

**Emergency telephone number:** 

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

# 2. Hazard(s) identification

## **Hazard Classification**

**Health Hazards** 

Carcinogenicity Category 1B

**Label Elements** 

**Hazard Symbol:** 



Signal Word: Danger

**Hazard Statement:** May cause cancer.

May form combustible dust concentrations in air.

Precautionary Statement

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment as required. Prevent dust accumulation to minimize explosion

hazard.

**Response:** If exposed or concerned: Get medical advice/attention.



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Storage: Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
C.I. DIRECT BLUE 14		72-57-1	60 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if

you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

**Symptoms:** May cause irritation to skin, eyes, and respiratory tract.

Indication of immediate medical attention and special treatment needed

**Treat symptomatically.** Symptoms may be delayed.

# 5. Fire-fighting measures

**General Fire Hazards:** Dust may form explosive mixture with air.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing

media:

Straight Streams of Water

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters



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Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. See Section 8 of the MSDS

for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Avoid dust formation. Sweep up and place in a clearly labeled container for

chemical waste. Clean surface thoroughly to remove residual contamination.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

# 7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of

dust. Wash thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a well-

ventilated place.

#### 8. Exposure controls/personal protection

# **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

**Appropriate Engineering** 

Controls

No data available.

## Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

**Eye/face protection:** Use tight fitting goggles if dust is generated.

**Skin Protection** 

**Hand Protection:** Wear protective gloves.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.



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**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

# 9. Physical and chemical properties

**Appearance** 

Physical state: Solid Form: Powder.

Color: Dark violet, Brown
Odor: No data available.
Odor threshold: No data available.
pH: No data available.

Melting point/freezing point: > 300 °C

Initial boiling point and boiling range:No data available.Flash Point:No data available.Evaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Vapor density:

No data available.

Solubility(ies)

Solubility in water: Soluble

**Solubility (other):** ethanol: 0.6 g/l

Partition coefficient (n-octanol/water): -0.12

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

Other information

Molecular weight: 960.81 g/mol (C34H28N6O14S4.4Na)

## 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

Hazardous polymerization does not occur.

Conditions to Avoid: Contact with incompatible materials.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition** 

Products:

Thermal decomposition may produce oxides of sulfur. Sodium oxides Thermal decomposition may produce oxides of carbon and nitrogen.



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# 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion:** May cause irritation of the gastrointestinal tract.

**Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** May cause irritation.

**Eye contact:** May cause temporary eye irritation.

#### Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 6,200 mg/kg

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

**Repeated Dose Toxicity** 

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** May cause skin irritation.

Serious Eye Damage/Eye Irritation

**Product:** May irritate eyes.

Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** May cause cancer.

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

C.I. DIRECT BLUE Overall evaluation: 2B. Possibly carcinogenic to humans.

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# **US. National Toxicology Program (NTP) Report on Carcinogens:**

C.I. DIRECT BLUE Reasonably Anticipated to be a Human Carcinogen.

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# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

#### **Germ Cell Mutagenicity**

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

**Reproductive Toxicity** 

**Product:** No components toxic to reproduction



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Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

Product: Not classified

Other Effects: None known.

# 12. Ecological information

## **Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

**Biodegradation** 

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative Potential** 

**Bioconcentration Factor (BCF)** 

**Product:** Will not bio-accumulate.

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: -0.12

**Mobility in Soil:** No data available.

Other Adverse Effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

aws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.



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14. Transport information					
DOT Not regulated.					
IMDG Not regulated.					
IATA					
Not regulated.					
15. Regulatory information					
US Federal Regulations					
TSCA Section 12(b) Export Notific US. OSHA Specifically Regulate None present or none present in	ed Substances (29	CFR 1910.1001-1050)			
CERCLA Hazardous Substance C.I. DIRECT BLUE 14	List (40 CFR 302.4 Reportable quantit				
Superfund Amendments and Re	eauthorization Act	of 1986 (SARA)			
Hazard categories					
X Acute (Immediate) X Chronic (Delayed) Fire Reactive Pressure Generating					
SARA 302 Extremely Hazard None present or none		d quantities.			
SARA 304 Emergency Relea	RQ	<u></u>			
C.I. DIRECT BLUE 14 10 lbs.					
SARA 311/312 Hazardous C Chemical Identity	hemical Threshold Planni	<del> </del>			
C.I. DIRECT BLUE 14		500 lbs			
SARA 313 (TRI Reporting)	Donortina	Departing threshold for			
Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing			
C.I. DIRECT BLUE 14	10000 lbs	25000 lbs.			
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)  None present or none present in regulated quantities.					
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):  None present or none present in regulated quantities.					
US State Regulations					

# **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

C.I. DIRECT BLUE 14 Carcinogenic.

# **US. New Jersey Worker and Community Right-to-Know Act**

C.I. DIRECT BLUE 14 Listed



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## US. Massachusetts RTK - Substance List

C.I. DIRECT BLUE 14 Listed

#### US. Pennsylvania RTK - Hazardous Substances

C.I. DIRECT BLUE 14 Listed

US. Rhode Island RTK

C.I. DIRECT BLUE 14 Listed

# **Inventory Status:**

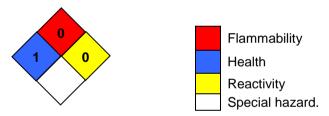
Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory China Inv. Existing Chemical Substances: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory

Japan ISHL Listing:

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

# 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date: 11-13-2014

**Revision Date:** No data available.

Version #: 1.0

**Further Information:** No data available.



Disclaimer:

Version: 1.0

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