

1. Identification of the substance/mixture and of the company/undertaking

Product name HG725 Brilliant Blue

Product code 26107251

Intended use of the substance/preparation

Coating for professional use

Company/Undertaking Identification

Producer/Supplier DuPont Australia Ltd
 Street/Box 7 Eden Park Drive
 Nat.-Code/Postal code/City Macquarie Park NSW 2113, Australia
 Telephone (02) 9923 6111
 Telefax (02) 9923 6011

Product Information

Telephone (02) 9923 6111

Emergency Information

Medical Emergency Phone 1800 674 415
 Transportation Emergency Phone (02) 9923 6275

For further information, please also consult our Internet site

<http://www.spieshecker.com>

2. Hazards identification

Dangerous Goods. Non- Hazardous Substance.

Human health hazards

Classification : dangerous for the environment; Flammable;
 Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Special hazard instructions for humans and environment

Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Do not breathe vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment.

3. Composition/information on ingredients

Chemical characterization

Mixture of synthetic resins, pigments, and solvents

Hazardous components

CAS-No.	Chemical Name	Concentration	Classification
123-86-4	n-butyl acetate	25.00 - < 35.00 %	R10 R66 R67
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	3.00 - < 5.00 %	R10 Xi; R37 N; R51/53 Xn; R65 R66 R67 NotaH NotaP
110-43-0	heptan-2-one	3.00 - < 5.00 %	R10 Xn; R20/22

CAS-No.	Chemical Name	Concentration	Classification
95-63-6	1,2,4-trimethylbenzene	2.00 - < 2.50 %	R10 Xn; R20 Xi; R36/37/38 N; R51/53
108-67-8	mesitylene	0.25 - < 0.50 %	R10 Xi; R37 N; R51/53
103-65-1	n-propylbenzene	0.25 - < 0.50 %	R10 Xn; R65 Xi; R37 N; R51/53
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.25 - < 0.50 %	N; R50/53 R43
98-82-8	cumene	0.10 - < 0.20 %	R10 Xn; R65 Xi; R37 N; R51/53
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.10 - < 0.20 %	R43 N; R50/53

Additional advice

See full text of R-phrases in chapter 16.

4. First aid measures

General advice

When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

5. Fire-fighting measures

Hazardous combustion products

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

Fire and Explosion Hazards

Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition.

Suitable extinguishing media

Universal aqueous film-forming foam, Carbon dioxide (CO₂), Dry chemical, Water spray.

Extinguishing media which shall not be used for safety reasons

High volume water jet

Special Protective Equipment and Fire Fighting Procedures

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Additional advice

Cool closed containers exposed to fire with water spray.

Additional information

Hazchem : 3Y

6. Accidental release measures

Personal precautions

Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Handling

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Safe handling advice

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one.

Storage**Requirements for storage areas and containers**

Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

8. Exposure controls/personal protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Additional technical information on the plant

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

National occupational exposure limits

CAS-No.	Chemical Name	Values	Control Parameters	Basis
123-86-4	n-butyl acetate	STEL	950 mg/m ³ 200 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
		TWA	713 mg/m ³ 150 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)			no exposure standard allocated
110-43-0	heptan-2-one	TWA	233 mg/m ³ 50 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
95-63-6	1,2,4-trimethylbenzene	TWA	25 ppm	NOHSC:1003(2003)
108-67-8	mesitylene	TWA	25 ppm	NOHSC:1003(2003)
103-65-1	n-propylbenzene			no exposure standard allocated
41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate			no exposure standard allocated
98-82-8	cumene	STEL	375 mg/m ³ 75 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
		TWA	125 mg/m ³ 25 ppm	NOHSC:1003(2003) NOHSC:1003(2003)
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			no exposure standard allocated

Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Eye protection

Wear protective eyewear for protection against solvent spatter.

Skin and body protection

Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

Environmental exposure controls

Do not let product enter drains. For ecological information refer to section 12.

9. Physical and chemical properties

Appearance

Form: liquid Colour: blue

Important physical and chemical information

	Value	Method
Flash point	25 °C	
Ignition temperature	370 °C	DIN 51794
Boiling point/boiling range	125 °C	
Lower explosion limit	0.9 %	
Upper explosion limit	7.6 %	
Vapour pressure	3.9 hPa	
Relative density	1.01 g/cm ³	DIN 53217/ISO 2811
Water solubility	moderate	
Viscosity (23 °C)	28 s	ISO 2431-1993 6 mm
Solvent separation test	< 3%	ADR/RID
Content of volatile components (including water)	38.5%	Basis Vapour pressure >= 0.01 kPa
pH	Not applicable.	

10. Stability and reactivity

Stability

Stable

Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

General observations

There is no data available on the product. See sections 3 and 15 for details.

Practical experience

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Toxicity Test Type	Value	Time	Species
n-butyl acetate Oral LD50	> 5,000 ml/kg		rat

Toxicity Test Type	Value	Time	Species
Dermal LD50	> 5,000 ml/kg		rabbit
Inhalation LC50	> 6,335 ppm	4 h	rat
solvent naphtha (petroleum), light arom. (<0,1% benzene)			
Oral LD50	> 5,000 mg/kg		rat
Dermal LD50	> 3,160 mg/kg		rat
Inhalation LD50	> 3,670 ppm	4 h	rat
heptan-2-one			
Oral LD50	1,600 mg/kg		rat
Oral LD50	= 730 mg/kg		mouse
Dermal LD50	10.206 g/kg		rabbit
Inhalation LC50	2,000 ppm	4 h	rat
1,2,4-trimethylbenzene			
Oral LD50	5,000 mg/kg		rat
Inhalation LC50	18,000 mg/m3	4 h	rat
mesitylene			
Oral LD50	24,000 mg/kg		rat
Inhalation LC50	24 mg/l	4 h	rat
n-propylbenzene			
Oral LD50	6,040 mg/kg		rat
Inhalation LD50	> 9,999 ppm	2 h	rat
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate			
Oral LD50	3,125 mg/kg		rat
Dermal LD50	> 2,000 mg/kg		rat
cumene			
Oral LD50	1,400 mg/kg		rat
Dermal LD50	10,578 mg/kg		rabbit
Inhalation LC50	39 mg/l	4 h	rat
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Oral LD50	> 2,000 mg/kg		rat
Dermal LD50	> 2,000 mg/kg		rat

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. The product contains an organic linked halogen. It may contribute to the AOX-value.

Acute toxicity aquatic invertebrates

Chemical Name	Species	Type	Exposure time	Value	Method
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Daphnia	EC50	24 h	170 mg/l	
1,2,4-trimethylbenzene	Daphnia	LC50	48 h	6 mg/l	
mesitylene	Daphnia	EC50	48 h	6 mg/l	
n-propylbenzene	Daphnia	EC50	24 h	2 mg/l	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Daphnia	EC50	24 h	20 mg/l	
cumene	Daphnia	EC50	24 h	1.4 mg/l	
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Daphnia	EC50	24 h	20 mg/l	

Acute and extended toxicity of fishes

Chemical Name	Species	Type	Exposure time	Value	Method
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Brachydanio rerio (zebra fish)	LC50	96 h	10 mg/l	
1,2,4-trimethylbenzene	Oncorhynchus mykiss (rainbow trout)	EC50	96 h	9.22 mg/l	
mesitylene	Carassius auratus (goldfish)	LC50	96 h	12.5 mg/l	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Lepomis macrochirus (Bluegill sunfish)	LC50	96 h	0.97 mg/l	

Chemical Name	Species	Type	Exposure time	Value	Method
cumene	Oncorhynchus mykiss (rainbow trout)	LC50	96 h	2.7 mg/l	
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Lepomis macrochirus (Bluegill sunfish)	LC50	96 h	0.97 mg/l	
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Oncorhynchus mykiss (rainbow trout)	LC50	96 h	7.9 mg/l	

Toxicity with aquatic plants

Chemical Name	Species	Type	Exposure time	Value	Method
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Algae	EC50	72 h	10 mg/l	
cumene	green algae (type not specified)	IC50	72 h	2.6 mg/l	

Mobility

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

13. Disposal considerations

Incinerate or otherwise dispose of waste material in accordance with local regulations. The product should not be allowed to enter drains, water courses or the soil. Do not incinerate in closed containers.

14. Transport information

Transport in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classifications, Packaging and Labeling), ADG for road, IMDG for sea and ICAO/IATA for air transport.

ADG (Land transport)

Proper shipping name: PAINT
 UN-Number: 1263
 Hazard Class: 3
 Subsidiary Hazard Class: Not applicable.
 Packing group: III
 Hazchem: 3Y

IMDG (Sea transport)

Proper shipping name: PAINT
 UN-Number: 1263
 Hazard Class: 3
 Subsidiary Hazard Class: Not applicable.
 Packing group: III
 Marine Pollutant: N
 EmS: F-E,S-E

ICAO/IATA (Air transport)

Proper shipping name: PAINT
 UN-Number: 1263

Hazard Class: 3
 Subsidiary Hazard Class: Not applicable.
 Packing group: III

15. Regulatory information

R-phrase(s)

R10	Flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

S-phrase(s)

S23	Do not breathe vapour/spray.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Standard for the Uniform Scheduling of Drugs and Poisons.

No poison schedule number allocated.

16. Other information

Full text of R phrases with no. appearing in section 3

R10	Flammable.
R20	Harmful by inhalation.
R20/22	Harmful by inhalation and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Sources of key data used to compile the datasheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition (NOHSC:2011(2003))
2. Approved Criteria for Classifying Hazardous Substances (NOHSC:1008(1999))
3. List of Designated Hazardous Substances (NOHSC:10005(1999))
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment (NOHSC:1003(1995))
5. Australian Dangerous Goods Code, No. 6 (National Road Transport Commission)
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)
7. National Code of Practice for the Labelling of Workplace Substances ((NOHSC:2012 (1994))

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Report version

Version	Changes
1.3	15

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