

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

Product name Crystal Rainbow

Product code 02026666

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.standex.com>

2. Hazards identification

Hazardous Substance. Dangerous Goods.

Human health hazards

Classification : Irritant; Flammable;
 Flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Special hazard instructions for humans and environment

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 | 45.00 - < 55.00 % | R10 R66 R67 |
| 71-36-3 | n-butanol | 7.00 - < 10.00 % | R10 Xi; R37/38 Xn; R22 R67 Xi; R41 |
| 112-07-2 | 2-butoxyethyl acetate | 5.00 - < 7.00 % | Xn; R20/21 |
| 1330-20-7 | xylene | 3.00 - < 5.00 % | R10 Xn; R20/21 Xi; R38 |

| CAS-No. | Chemical Name | Concentration | Classification |
|------------|--|-----------------|--|
| 64742-82-1 | naphtha, (petroleum), hydrodesulfurized heavy (white spirit) (<0,1% benzene) | 2.00 - < 2.50 % | R10 N; R51/53 Xn; R65 R66 R67 |
| 34590-94-8 | (2-methoxymethylethoxy)propanol | 1.00 - < 2.00 % | |
| 100-41-4 | ethylbenzene | 1.00 - < 2.00 % | F; R11 Xn; R20 |
| 78-83-1 | iso-butanol | 1.00 - < 2.00 % | R10 Xi; R37/38 Xi; R41 R67 |
| 95-63-6 | 1,2,4-trimethylbenzene | 0.10 - < 0.20 % | R10 Xn; R20 Xi; R36/37/38 N; R51/53 |

Additional advice

To avoid misinterpretation in any case of risk assessment it is not allowed to accumulate the above mentioned percentages. 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

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

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.

| CAS-No. | Chemical Name | Values | Control Parameters | Basis |
|---------|---------------|--------|--------------------|-------|
|---------|---------------|--------|--------------------|-------|

National occupational exposure limits

| CAS-No. | Chemical Name | Values | Control Parameters | Basis |
|------------|--|--------|--------------------|--------------------------------|
| 123-86-4 | n-butyl acetate | STEL | 950 mg/m3 | NOHSC:1003(2003) |
| | | | 200 ppm | NOHSC:1003(2003) |
| | | TWA | 713 mg/m3 | NOHSC:1003(2003) |
| | | | 150 ppm | NOHSC:1003(2003) |
| 71-36-3 | n-butanol | TWA | 20 ppm | NOHSC:1003(2003) |
| 112-07-2 | 2-butoxyethyl acetate | TWA | 130 mg/m3 | NOHSC:1003(2003) |
| 1330-20-7 | xylene | STEL | 655 mg/m3 | NOHSC:1003(2003) |
| | | | 150 ppm | NOHSC:1003(2003) |
| | | TWA | 350 mg/m3 | NOHSC:1003(2003) |
| | | | 80 ppm | NOHSC:1003(2003) |
| 64742-82-1 | naphtha, (petroleum), hydrodesulfurized heavy (white spirit) (<0,1% benzene) | | | no exposure standard allocated |
| 34590-94-8 | (2-methoxymethylethoxy)propanol | TWA | 308 mg/m3 | NOHSC:1003(2003) |
| | | | 50 ppm | NOHSC:1003(2003) |
| 100-41-4 | ethylbenzene | STEL | 543 mg/m3 | NOHSC:1003(2003) |
| | | | 125 ppm | NOHSC:1003(2003) |
| | | TWA | 434 mg/m3 | NOHSC:1003(2003) |
| | | | 100 ppm | NOHSC:1003(2003) |
| 78-83-1 | iso-butanol | TWA | 152 mg/m3 | NOHSC:1003(2003) |
| | | | 50 ppm | NOHSC:1003(2003) |
| 95-63-6 | 1,2,4-trimethylbenzene | TWA | 25 ppm | NOHSC:1003(2003) |

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 |
| n-butanol | Viton (R) ® | 0.7 mm | 480 min |
| | Nitrile rubber | 0.33 mm | 480 min |
| 2-butoxyethyl acetate | Viton (R) ® | 0.7 mm | 480 min |
| | Nitrile rubber | 0.33 mm | 480 min |
| xylene | Nitrile rubber | 0.33 mm | 30 min |
| | Viton (R) ® | 0.7 mm | 480 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: silver

Important physical and chemical information

| | Value | Method |
|--|------------------------|-----------------------------------|
| Flash point | 23 °C | DIN 53213/ISO1523 |
| Ignition temperature | 201 °C | DIN 51794 |
| Boiling point/boiling range | 118 °C | |
| Lower explosion limit | 1.4 % | |
| Upper explosion limit | 11.2 % | |
| Vapour pressure | 7.8 hPa | |
| Relative density | 0.93 g/cm ³ | DIN 53217/ISO 2811 |
| Water solubility | moderate | |
| Viscosity (23 °C) | 52 s | ISO 2431-1993 6 mm |
| Solvent separation test | < 3% | ADR/RID |
| Content of volatile components (including water) | 78.7% | 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

The product contains ingredients which, under certain conditions, also may release formaldehyde. If necessary, the precise concentration has to be determined. 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 resorption, 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.

| Toxicity Test Type | Value | Time | Species |
|--|--------------------------|------|------------|
| n-butyl acetate | | | |
| Oral LD50 | > 5,000 ml/kg | | rat |
| Dermal LD50 | > 5,000 ml/kg | | rabbit |
| Inhalation LC50 | > 6,335 ppm | 4 h | rat |
| n-butanol | | | |
| Oral LD50 | 790 mg/kg | 8 h | rat |
| Dermal LD50 | 3,400 mg/kg | 8 h | rabbit |
| Inhalation LC50 | 8,000 ppm | 4 h | rat |
| 2-butoxyethyl acetate | | | |
| Oral LD50 | > 2,000 mg/kg | | rat |
| Dermal LD50 | 1,500 mg/kg | | rabbit |
| xylene | | | |
| Oral LD50 | 4,300 mg/kg | | rat |
| Dermal LD50 | > 1,700 mg/kg | | rabbit |
| Inhalation LC50 | 5,000 ppm | 4 h | rat |
| naphtha, (petroleum), hydrodesulfurized heavy (white spirit) (<0,1% benzene) | | | |
| Oral LD50 | > 2,000 mg/kg | | rat |
| Dermal LD50 | > 2,000 mg/kg | | rat |
| (2-methoxymethylethoxy)propanol | | | |
| Oral LD50 | = 5,135 mg/kg | | rat |
| Dermal LD50 | = 9,500 mg/kg | | rabbit |
| Inhalation LC50 | > 500 ppm | 7 h | rat |
| ethylbenzene | | | |
| Oral LD50 | 3,500 mg/kg | | rat |
| Dermal LD50 | 17.8 g/kg | | rabbit |
| Inhalation LC50 | 4,000 ppm | 4 h | rat |
| iso-butanol | | | |
| Oral LD50 | 5.5 ml/kg | | Female Rat |
| Dermal LD50 | 2,460 mg/kg | | rabbit |
| Inhalation LC50 | 8,000 ppm | | rat |
| Percutaneous LD50 | 2.5 ml/kg | | rabbit |
| 1,2,4-trimethylbenzene | | | |
| Oral LD50 | 5,000 mg/kg | | rat |
| Inhalation LC50 | 18,000 mg/m ³ | 4 h | rat |

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. Product does not contain organic linked halogens contributing to AOX.

Acute toxicity aquatic invertebrates

| Chemical Name | Species | Type | Exposure time | Value | Method |
|------------------------|---------|------|---------------|--------|--------|
| 1,2,4-trimethylbenzene | Daphnia | LC50 | 48 h | 6 mg/l | |

Acute and extended toxicity of fishes

| Chemical Name | Species | Type | Exposure time | Value | Method |
|--|---|------|---------------|-----------|--------|
| naphtha, (petroleum), hydrodesulfurized heavy (white spirit) (<0,1% benzene) | Cyprinodon variegatus (sheepshead minnow) | LC50 | 96 h | 10 mg/l | |
| 1,2,4-trimethylbenzene | Oncorhynchus mykiss (rainbow trout) | EC50 | 96 h | 9.22 mg/l | |

Toxicity with aquatic plants

| Chemical Name | Species | Type | Exposure time | Value | Method |
|--|---------|------|---------------|---------|--------|
| naphtha, (petroleum), hydrodesulfurized heavy (white spirit) (<0,1% benzene) | Algae | EC50 | 72 h | 10 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

Symbol and indication of hazard.

| | |
|----------------|--|
| Xi Contains | Irritant n-butyl acetate 45.00 - < 55.00 %; n-butanol 7.00 - < 10.00 %. |
|----------------|--|

R-phrases(s)

| | |
|-----|---|
| R10 | Flammable. |
| R36 | Irritating to eyes. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |

S-phrases(s)

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

Standard for the Uniform Scheduling of Drugs and Poisons.

Schedule 5

16. Other information

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

| | |
|-----------|---|
| R10 | Flammable. |
| R11 | Highly flammable. |
| R20 | Harmful by inhalation. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R22 | Harmful if swallowed. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R37/38 | Irritating to respiratory system and skin. |
| R38 | Irritating to skin. |
| R41 | Risk of serious damage to eyes. |
| R51/53 | Toxic 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 |
|---------|--|
| 3.0 | 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 |

Revision Date: 2009-10-15