

MATERIAL SAFETY DATA SHEET

FOR HAZARDOUS PRODUCTS USED IN PLACES OF EMPLOYMENT

Req. #1809-A

#946

section 1 name & product		emergency phone no. (24 hours)	
manufacturer's name (a) ICI Americas Inc.		(b) 302-575-3000	
street address (c) Concord Pike & Murphy Road		for latest data, consult manufacturer.	date this form written (d) 4/10/80
city, state, zip code (e) Wilmington, DE 19897		signature of certifying company official (f)	
chemical name, trade name, and synonyms (g) PROCION® BROWN MX-CRA <i>Chocolate</i>			
formula of primary component(s) (h) C.I. Reactive Brown			

section 2 Ingredients	%	TLV (units)
Pure Dye Proprietary	41.3 58.7	*10 mg/M ³
*No data but suggest a TLV of 10 mg/M ³ total dust. (not specification values)		

section 3 physical data			
2 boiling point (°F.)	Not applicable	6 specific gravity	Approx. 1
3 vapor pressure (mmHg at 20°c)	Not applicable	7 % volatile by volume	Not applicable
4 vapor density (air = 1)	Not applicable	8 color and odor	Brown/Minimal
5 solubility in water	120 g/l	9 physical state	Powder

section 4 fire and explosion hazard data		11 flammable limits (STP)	
10 flash point (and method used) Not applicable		L.F.L. Not applicable	U.F.L. Not applicable
12 extinguishing media:	<input checked="" type="checkbox"/> water fog	<input checked="" type="checkbox"/> foam	<input type="checkbox"/> alcohol foam
		<input type="checkbox"/> CO ₂	<input type="checkbox"/> dry chemical
			<input type="checkbox"/> other
13 special fire fighting protective equipment Self contained breathing apparatus in close proximity of fire.			

14 unusual fire and explosion hazards
In common with many organic chemicals including the majority of dyes and pigments in powder form, this product could form flammable dust clouds in air.

section 5 reactivity data			
15 stability	normal conditions	Yes	16 conditions to avoid
	fire conditions	Yes	
17 incompatibility (materials to avoid)	<input type="checkbox"/> water	<input type="checkbox"/> acid	<input type="checkbox"/> base
	<input type="checkbox"/> other	Not applicable	
	<input type="checkbox"/> corrosive	<input type="checkbox"/> oxidizing material	

18 hazardous decomposition products Oxides of nitrogen, CO, & CO ₂			
19 hazardous polymerization	may occur		20 conditions to avoid
	will not occur	x	

PROCION is a registered trademark of Imperial Chemical Industries Ltd.

MATERIAL SAFETY DATA SHEET (continued)

PROCION Brown MX-CRA

section 6 health hazard data

21 oral ingestion

Acute Oral Rat LD₅₀: >5.0 g/kg

22 eye contact

Positive as an eye irritant in animal testing.

23 skin contact

Mildly irritating in animal testing.

24 skin absorption

No data.

25 inhalation (TLV or suggested control figure)

No data but suggest a TLV of 10 mg/M³ total dust.

26 effects of overexposure Dust can cause respiratory allergy. A sensitized individual should not handle the product which caused the sensitization.

27 first aid procedures

Eye: Flush with plenty of water at least 15 minutes and call a physician. For skin - Flush with plenty of water. If redness, itching or a burning sensation develops, get medical attention. Remove contaminated clothing. Wash clothing and decontaminate shoes before reuse. Ingestion: Treat symptomatically.

section 7 spill or leak procedures

28 steps to be taken in case material is released or spilled

Mix with a slightly moist absorbent such as sand, earth or sawdust and shovel into waste container. Wear eye protection, protective clothing and respiratory protection.

29 disposal method

Dispose of waste material in accordance with local, state and federal pollution regulations.

section 8 special protection information

30 ventilation

local exhaust

special

At transfer points

mechanical (general)

other

Dilution ventilation

31 respiratory protection (specify type)

Caution, do not use respirators beyond their capabilities. If needed, use MSHA-NIOSH approved for substance with TLV not less than 0.05 mg/cum for dusts.

32 protective clothing

Rubber gloves, aprons and/or protective creams.

33 eye protection

not normally necessary

safety glasses without side shields

safety glasses with side shields

chemical workers goggles

gas tight goggles or equivalent

other

34 other protective equipment

Not applicable

section 9 special precautions or other comments

35 precautions to be taken in handling and storing

Dermatitis may occur to employees who may use harsh cleansing compounds or chemicals to remove stains.

Storage - normal chemical handling & storage.

36 other precautions

This dye does not contain any of the cancer-suspect agents in excess of the limits specified under the respective regulations in 29CFR Chapter XVII, Part 1910 Subpart Z, as of the date shown in section 1(d) of this form.

Ref.: Internal

the information herein is given in good faith but no warranty, express or implied, is made.

Fab Dec
3553 Old Post Road
San Antonio, TX 76904



MATERIAL SAFETY DATA SHEET FOR HAZARDOUS PRODUCTS USED IN PLACES OF EMPLOYMENT

#M3373

section 1 name & product	
manufacturer's name (a) ICI Americas Inc.	emergency phone no. (24 hours) (b) 302/575-3000
street address (c) Concord Pike & Murphy Rd.	for latest data, con- sult manufacturer. date this form written (d) 2/18/80
city, state, zip code (e) Wilmington, DE 19897	signature of certifying company official (f)
chemical name, trade name, and synonyms (g) PROCION® Blue MX-2GA (Navy)	
formula of primary component(s) (h) C. I. Reactive Blue 109	

section 2 ingredients	%	TLV (units)
Pure Dye	23.8	*10 mg/M ³
Proprietary	76.2	
*No data but suggest a TLV of 10 mg/M ³ total dust. (not specification values)		

section 3 physical data			
2 boiling point (°F.)	Not applicable	6 specific gravity	Approx. 1
3 vapor pressure (mmHg at 20°C)	Not applicable	7 % volatile by volume	Not applicable
4 vapor density (air = 1)	Not applicable	8 color and odor	Blue/Minimal
5 solubility in water	150 g/l	9 physical state	Powder

section 4 fire and explosion hazard data	
10 flash point (and method used) Not applicable	11 flammable limits (STP) L.F.L. Not applicable U.F.L. Not applicable
12 extinguishing media: <input checked="" type="checkbox"/> water fog <input checked="" type="checkbox"/> foam <input type="checkbox"/> alcohol foam <input type="checkbox"/> CO ₂ <input type="checkbox"/> dry chemical <input type="checkbox"/> other	
13 special fire fighting protective equipment Self contained breathing apparatus in close proximity of fire.	

14 unusual fire and explosion hazards
In common with many organic chemicals including the majority of dyes and pigments in powder form, this product could form flammable dust clouds in air.

section 5 reactivity data		
15 stability	normal conditions	16 conditions to avoid
	fire conditions	
17 incompatibility (materials to avoid)	<input type="checkbox"/> water <input type="checkbox"/> acid <input type="checkbox"/> base <input type="checkbox"/> corrosive <input type="checkbox"/> oxidizing material <input type="checkbox"/> other Not applicable	
18 hazardous decomposition products Thermal decomposition products: oxides of nitrogen, CO, & CO ₂ .		
19 hazardous polymerization	may occur	20 conditions to avoid
	will not occur	
	X	

MATERIAL SAFETY DATA SHEET (continued)

PROCION Blue MX-2GA

section 6 health hazard data Based on the testing of a similar dye material.

21 oral ingestion

Acute Oral Rat LD50: >5.0 g/kg.

22 eye contact

Positive as an eye irritant in animal testing.

23 skin contact

Mildly irritating in animal testing but not considered a primary skin irritant.

24 skin absorption

Not applicable

25 inhalation (TLV or suggested control figure)

No data but suggest TLV of 10 mg/M³ total dust. (ACGIH 1979 tables)

26 effects of overexposure Dust can cause respiratory allergy. A sensitized individual should not handle the product which caused the sensitization.

27 first aid procedures

In case of contact with eyes or skin - Flush with plenty of water. If redness, itching or a burning sensation develops, get medical attention. Remove contaminated clothing. Wash clothing and decontaminate shoes before reuse. Ingestion: Treat symptomatically.

section 7 spill or leak procedures

28 steps to be taken in case material is released or spilled

Mix with a slightly moist absorbent such as sand, earth or sawdust and shovel into waste container. Wear eye protection, protective clothing and respiratory protection.

29 disposal method

Dispose of waste material in accordance with local, state and federal pollution regulations.

section 8 special protection information

30 ventilation

local exhaust

special

At transfer points

mechanical (general)

other

Dilution ventilation

31 respiratory protection (specify type) Caution, do not use respirators beyond their capabilities. Not normally needed if local exhaust satisfactory. If needed use MESA-NIOSH approved for

32 protective clothing substance with TLV not less than 0.05 mg/cum for dusts.

Rubber gloves, aprons and/or protective creams.

33 eye protection

safety glasses with side shields

chemical workers goggles

gas tight goggles or equivalent

other

Full face shield, in addition, if in solution and splashing possible

34 other protective equipment

Not applicable

section 9 special precautions or other comments

35 precautions to be taken in handling and storing

Dermatitis may occur to employees who may use harsh cleansing compounds or chemicals to remove stains.

36 other precautions

This dye does not contain any of the cancer-suspect agents in excess of the limits specified under the respective regulations in 29CFR Chapter XVII, Part 1910 Subpart Z, as of the date shown in section 1(d) of this form.

37 references

Internal, 1979 ACGIH TLV tables.

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Fab Dec
3553 Old Post Road
San Angelo, Tx 76904

MATERIAL SAFETY DATA SHEET
 FOR HAZARDOUS PRODUCTS USED IN PLACES OF EMPLOYMENT

Dabdee K62443

Req. #1792-A

section 1 name & product

manufacturer's name

(a) ICI Americas Inc.

street address

(c) Concord Pike & Murphy Road

city, state, zip code

(e) Wilmington, DE 19897

chemical name, trade name, and synonyms

(g) PROCION® Green MX-CBA

(Dark Green)

formula of primary component(s)

(h) C. I. Reactive Green

emergency phone no. (24 hours)

(b) 302-575-3000

**962*

date this form written

(d) 4/10/80

for latest data, con-

sult manufacturer.

signature of certifying company official

(f)

section 2 ingredients

% TLV (units)

Pure Dye
 Proprietary

34.7 *10 mg/M³
 65.3

*No data but suggest a TLV of 10 mg/M³ total dust.

(not specification values)

section 3 physical data

2 boiling point (°F.)	Not applicable	6 specific gravity	Approx. 1
3 vapor pressure (mmHg at 20°C)	Not applicable	7 % volatile by volume	Not applicable
4 vapor density (air = 1)	Not applicable	8 color and odor	Green/Minimal
5 solubility in water	150 g/l	9 physical state	Powder

section 4 fire and explosion hazard data

10 flash point (and method used)	11 flammable limits (STP)
Not applicable	L.F.L. Not applicable U.F.L. Not applicable

12 extinguishing media:	<input checked="" type="checkbox"/> water fog	<input checked="" type="checkbox"/> foam	<input type="checkbox"/> alcohol foam	<input type="checkbox"/> CO ₂	<input type="checkbox"/> dry chemical	<input type="checkbox"/> other
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13 special fire fighting protective equipment
 Self contained breathing apparatus in close proximity of fire.

14 unusual fire and explosion hazards

In common with many organic chemicals including the majority of dyes and pigments in powder form, this product could form flammable dust clouds in air.

section 5 reactivity data

15 stability	normal conditions	Yes	16 conditions to avoid
	fire conditions	Yes	

17 incompatibility (materials to avoid)	<input type="checkbox"/> water	<input type="checkbox"/> acid	<input type="checkbox"/> base	<input type="checkbox"/> corrosive	<input type="checkbox"/> oxidizing material
	<input type="checkbox"/> other	Not applicable			

18 hazardous decomposition products
 Oxides of nitrogen, CO & CO₂

19 hazardous polymerization	may occur		20 conditions to avoid
	will not occur	X	

section 6 health hazard data

21 oral ingestion

Acute Oral Rat LD₅₀: >5.0 g/kg

22 eye contact

Mildly irritating in animal testing.

23 skin contact

Mildly irritating to rabbit skin.

24 skin absorption

No data.

25 inhalation (TLV or suggested control figure)

No data but suggest a TLV of 10 mg/M³ total dust.

26 effects of overexposure: Dust can cause respiratory allergy. A sensitized individual should not handle the product which caused the sensitization.

27 first aid procedures

For eyes & skin - Flush with plenty of water. If redness, itching or a burning sensation develops, get medical attention. Remove contaminated clothing. Wash clothing and decontaminate shoes before reuse. Ingestion: Treat symptomatically.

section 7 spill or leak procedures

28 steps to be taken in case material is released or spilled

Mix with a slightly moist absorbent such as sand, earth or sawdust and shovel into waste

container. Wear eye protection, protective clothing and respiratory protection.

29 disposal method

Dispose of waste material in accordance with local, state and federal pollution regulations.

section 8 special protection information

30 ventilation

local exhaust

special

At transfer points

mechanical (general)

other

Dilution ventilation

31 respiratory protection (specify type) Caution, do not use respirators beyond their capabilities. If needed, use MSHA-NIOSH approved respirator for substance with TLV not less than 0.05 mg/cum for dusts.

32 protective clothing

Rubber gloves, aprons and/or protective creams.

33 eye protection

not normally necessary

safety glasses without side shields

safety glasses with side shields

chemical workers goggles

gas tight goggles or equivalent

other

34 other protective equipment

Not applicable

section 9 special precautions or other comments

35 precautions to be taken in handling and storing

Dermatitis may occur to employees who may use harsh cleansing compounds or chemicals

to remove stains.

Storage - normal chemical handling & storage.

36 other precautions

This dye does not contain any of the cancer-suspect agents in excess of the limits

specified under the respective regulations in 29CFR Chapter XVII, Part 1910 Subpart Z,

as of the date shown in section 1(d) of this form.

Ref.: Internal

the information herein is given in good faith but no warranty, express or implied, is made.

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