

NVA655_A0

Material Safety Data Sheet ENVIROLINE 378 PART B LOW TEMPERATURE



Bulk Sales Reference No.:
MSDS Revision Date:
MSDS Revision Number:

Sales
Order: {SalesOrd}
NVA655
10/01/2011
A0-8

1. Identification of the preparation and company

Product Identity	ENVIROLINE 378 PART B LOW TEMPERATURE
Bulk Sales Reference No.	NVA655
Company Name	International Paint LLC 6001 Antoine Drive Houston Texas 77091
Emergency	
CHEMTREC (USA)	(800) 424-9300
International Paint	(713) 682-1711
Poison Control Center	(800) 854-6813
Customer Service	
International Paint	(800) 589-1267
Fax No.	(800) 631-7481

2. Hazard identification of the product



Danger

GHS Classification:

Item	Category	Hazard
Flammability	4	Combustible liquid
Acute Toxicity (mouth)	5	May be harmful if swallowed
Acute Toxicity (skin)	Not classified	Not applicable
Acute Toxicity (inhalation)	Not classified	Not applicable
Acute Toxicity (ingestion)	Not classified	Not applicable
Skin corrosion/irritation	1A	Causes severe skin burns and eye damage
Eye damage/irritation	Not classified	Not applicable
Sensitization (respiratory)	Not classified	Not applicable
Sensitization (skin)	1	May cause allergic reaction.
Germ toxicity	2	Suspected of causing genetic defects.
Specific target organ systemic toxicity (single exposure)	1	cardiovascular system, central nerve system, kidneys, liver, respiratory system
	2	Not applicable
	3	respiratory tract irritation
Specific target organ systemic Toxicity (repeated exposure)	1	blood (circulatory system), cardiovascular system, central nerve system, digestive tract, kidneys, lung, respiratory system
	2	Not applicable
Aspiration hazard	Not classified	Not applicable
Harmfulness to aquatic Environment (acute)	Not classified	Not applicable
	Not classified	Not applicable

NVA655_A0

Harmfulness to aquatic Environment (long term effect)		
Carcinogenicity	Not classified	Not applicable
Reproductive Toxicity	Not classified	Not applicable
Organic Peroxide	Not classified	Not applicable

Safety Phrases:

S1: Keep locked up.

S20: When using do not eat or drink.

S23: Do not breathe vapor/spray.

S24: Avoid contact with skin.

S28: After contact with skin, wash immediately with plenty of soap and water.

S36/37: Wear suitable protective clothing and gloves.

S39: Wear eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

S49: Keep only in the original container.

S51: Use only in well-ventilated areas.

Overview	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing. Absorption through the skin can cause damage to the liver, kidneys, pancreas and spleen and swelling of the lungs. Chronic exposure can cause death. Symptoms of exposure include vomiting, difficulty in swallowing, diarrhea, nausea, fainting, dizziness, pale skin and cold sweat.
Inhalation	Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea.
Eyes	Causes eye burns. Avoid contact with eyes.
Skin	Causes skin burns. May cause allergic skin reaction. May be harmful if absorbed through the skin.
Ingestion	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness. Ingestion can cause gangrene and corrosion of the lips, mouth, throat, esophagus, and stomach.
Chronic effects	Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 2 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.
HMIS Rating	Health: 0 Flammability: 2 Reactivity: Unknown PPE: X

3. Composition/information on ingredients

Ingredient	CAS No.	Percent
2,4,6-Tri(dimethylaminomethyl)phenol	0000090-72-2	1.0 - 10
Benzene, ethyl-	0000100-41-4	0.10 - 1.0
Benzyl alcohol	0000100-51-6	10 - 25
Phenol	0000108-95-2	1.0 - 10
Xylenes (o-, m-, p- isomers)	0001330-20-7	1.0 - 10
m-Xylene-alpha, alpha'-diamine	0001477-55-0	1.0 - 10
Cyclohexanamine, 4,4'-methylenebis-	0001761-71-3	1.0 - 10
Titanium dioxide	0013463-67-7	1.0 - 10
Wollastonite (Ca(SiO3))	0013983-17-0	25 - 50
FORMALDEHYDE, POLYMER WITH BENZENAMINE, HYDROGENAT	0135108-88-2	10 - 25
ORGANIC ACIDS (5017 Grant date 1/4/2005)	RR-08374-9	1.0 - 10

4. First aid measures

NVA655_A0

General	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
Ingestion	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flash Point	F: 150 C: 66
Lower Explosive Limit (LEL)	1 (%vol in air) at Normal Atmospheric Temp and Pressure
ERG Guide No.	153

6. Accidental release measures

Spill Response Procedures	ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. LARGE SPILLS: Dike far ahead of liquid spill to contain released material and runoff from fire control. DO NOT GET WATER INSIDE CONTAINERS.
Public Safety	CALL CHEMTREC at (800)-424-9300 for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters (1000 feet).
ERG Guide No.	153

7. Handling and storage

Storage Temperature	Store between 40-100F (4-38C).
Handling and Storage Precautions	Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Vapors may cause flash fire or ignite explosively. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Avoid contact with eyes, skin and clothing. Close container after each use. Wash thoroughly after handling.

8. Exposure controls and personal protection

Exposure

CAS No.	Ingredient	Source	Value
0000090-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0000100-41-4	Benzene, ethyl-	OSHA	100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL

NVA655_A0

		ACGIH	100 ppm TWA125 ppm STEL
		NIOSH	100 ppm TWA; 435 mg/m3 TWA125 ppm STEL; 545 mg/m3 STEL800 ppm IDLH (10% LEL)
		Supplier	No Established Limit
		OHSA, CAN	100 ppm TWAEV; 435 mg/m3 TWAEV125 ppm STEV; 540 mg/m3 STEV
		Mexico	100 ppm TWA; 435 mg/m3 TWA125 ppm STEL; 545 mg/m3 STEL
		Brazil	78 ppm TWA; 340 mg/m3 TWA
0000100-51-6	Benzyl alcohol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0000108-95-2	Phenol	OSHA	5 ppm TWA; 19 mg/m3 TWA
		ACGIH	5 ppm TWA
		NIOSH	5 ppm TWA; 19 mg/m3 TWA15.6 ppm Ceiling (15 min); 60 mg/m3 Ceiling (15 min)250 ppm IDLH
		Supplier	No Established Limit
		OHSA, CAN	5 ppm TWAEV; 19 mg/m3 TWAEV
		Mexico	5 ppm TWA; 19 mg/m3 TWA10 ppm STEL; 38 mg/m3 STEL
		Brazil	4 ppm TWA; 15 mg/m3 TWA
0001330-20-7	Xylenes (o-, m-, p- isomers)	OSHA	100 ppm TWA; 435 mg/m3 TWA150 ppm STEL; 655 mg/m3 STEL
		ACGIH	100 ppm TWA150 ppm STEL
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	100 ppm TWAEV; 435 mg/m3 TWAEV150 ppm STEV; 650 mg/m3 STEV
		Mexico	100 ppm TWA; 435 mg/m3 TWA150 ppm STEL; 655 mg/m3 STEL
		Brazil	78 ppm TWA; 340 mg/m3 TWA
0001477-55-0	m-Xylene-alpha, alpha'-diamine	OSHA	0.1 mg/m3 Ceiling
		ACGIH	0.1 mg/m3 Ceiling
		NIOSH	0.1 mg/m3 Ceiling
		Supplier	No Established Limit
		OHSA, CAN	0.1 mg/m3 CEV
		Mexico	No Established Limit
		Brazil	No Established Limit
0001761-71-3	Cyclohexanamine, 4,4'-methylenebis-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0013463-67-7	Titanium dioxide	OSHA	15 mg/m3 TWA (total dust)
		ACGIH	10 mg/m3 TWA
		NIOSH	5000 mg/m3 IDLH
		Supplier	No Established Limit

NVA655_A0

		OHSA, CAN	10 mg/m3 TWAEV (total dust)
		Mexico	10 mg/m3 TWA (as Ti)20 mg/m3 STEL (as Ti)
		Brazil	No Established Limit
0013983-17-0	Wollastonite (Ca(SiO3))	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
0135108-88-2	FORMALDEHYDE, POLYMER WITH BENZENAMINE, HYDROGENAT	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit
RR-08374-9	ORGANIC ACIDS (5017 Grant date 1/4/2005)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
		OHSA, CAN	No Established Limit
		Mexico	No Established Limit
		Brazil	No Established Limit

Health Data

CAS No.	Ingredient	Source	Value
0000090-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	NIOSH	No Established Limit
0000100-41-4	Benzene, ethyl-	NIOSH	Eye skin
0000100-51-6	Benzyl alcohol	NIOSH	No Established Limit
0000108-95-2	Phenol	NIOSH	Skin eye
0001330-20-7	Xylenes (o-, m-, p- isomers)	NIOSH	Central nervous system depressant; respiratory and eye irritation
0001477-55-0	m-Xylene-alpha, alpha'-diamine	NIOSH	Skin irritation systemic effects
0001761-71-3	Cyclohexanamine, 4,4'-methylenebis-	NIOSH	No Established Limit
0013463-67-7	Titanium dioxide	NIOSH	Lung tumors in animals
0013983-17-0	Wollastonite (Ca(SiO3))	NIOSH	No Established Limit
0135108-88-2	FORMALDEHYDE, POLYMER WITH BENZENAMINE, HYDROGENAT	NIOSH	No Established Limit
RR-08374-9	ORGANIC ACIDS (5017 Grant date 1/4/2005)	NIOSH	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000090-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000100-41-4	Benzene, ethyl-	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0000100-51-6	Benzyl alcohol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

NVA655_A0

		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000108-95-2	Phenol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0001330-20-7	Xylenes (o-, m-, p- isomers)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0001477-55-0	m-Xylene-alpha, alpha'-diamine	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001761-71-3	Cyclohexanamine, 4,4'-methylenebis-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0013463-67-7	Titanium dioxide	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0013983-17-0	Wollastonite (Ca(SiO3))	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0135108-88-2	FORMALDEHYDE, POLYMER WITH BENZENAMINE, HYDROGENAT	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
RR-08374-9	ORGANIC ACIDS (5017 Grant date 1/4/2005)	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Respiratory	Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. FOR USERS OF 3M RESPIRATORY PROTECTION ONLY: For information and assistance on 3M occupational health and safety products, call OH&ESD Technical Service toll free in U.S.A. 1-800-243-4630, in Canada call 1-800-267-4414. Please do not contact these numbers regarding other manufacturer's respiratory protection products. 3M does not endorse the accuracy of the information contained in this Material Safety Data Sheet.
Eyes	Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Skin	Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 3 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Engineering Controls	Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.
Other Work Practices	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

NVA655_A0

9. Physical and chemical properties

Physical State	Liquid Coloured
pH	No Established Limit
Specific Gravity	1.37
Boiling Point F	279
Vapor Density	Heavier than air
VOC %	Refer to the Technical Data Sheet or label where information is available.
Evaporation Rate	Slower than ether

10. Stability and reactivity

General	This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	May produce hazardous fumes when heated to decomposition as in welding. Fumes may produce Carbon Dioxide and Carbon Monoxide.

11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr
2,4,6-Tri(dimethylaminomethyl)phenol – (0000090–72–2)	1,000.00, Rat – Category: 4	1,280.00, Rat – Category: 4	-----
Benzene, ethyl– (0000100–41–4)	3,500.00, Rat – Category: 5	15,354.00, Rabbit – Category: NA	17.20, Rat – Category: 4
Benzyl alcohol – (0000100–51–6)	1,230.00, Rat – Category: 4	2,000.00, Rabbit – Category: 4	8.80, Rat – Category: 3
Phenol – (0000108–95–2)	317.00, Rat – Category: 4	525.00, Rat – Category: 3	-----
Xylenes (o-, m-, p- isomers) – (0001330–20–7)	4,300.00, Rat – Category: 5	1,700.00, Rabbit – Category: 4	29.08, rat – Category: NA
m-Xylene-alpha, alpha'-diamine – (0001477–55–0)	930.00, Rat – Category: 4	2,000.00, Rabbit – Category: 4	-----
Cyclohexanamine, 4,4'-methylenebis– (0001761–71–3)	1,000.00, Rat – Category: 4	-----	-----
Titanium dioxide – (0013463–67–7)	10,000.00, Rat – Category: NA	10,000.00, Rabbit – Category: NA	6,082.00, Rat – Category: NA
Wollastonite (Ca(SiO3)) – (0013983–17–0)	-----	-----	-----
FORMALDEHYDE, POLYMER WITH BENZENAMINE, HYDROGENAT – (0135108–88–2)	-----	-----	-----
ORGANIC ACIDS (5017 Grant date 1/4/2005) – (RR–08374–9)	-----	-----	-----

General	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. No additional information provided for this product. See Sections 8 and 11 for chemical specific data.
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12. Ecological information

No additional information provided for this product. See Sections 8 and 11 for chemical specific data.

13. Disposal considerations

Dispose of in accordance with local, state and federal regulations. (Also reference RCRA information in Section 15 if listed).

NVA655_A0

14. Transport information

DOT (Domestic Surface Transportation)		IMO / IMDG (Ocean Transportation)	
DOT Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS: ALIPHATIC AMINE)	IMDG Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS: ALIPHATIC AMINE)
DOT Hazard Class	8	IMDG Hazard Class	Class 8, No division Corrosive materials
UN / NA Number	UN 2735	UN / NA Number	UN 2735
DOT Packing Group	III	IMDG Packing Group	III
CERCLA/DOT RQ	633 gal. / 7225 lbs.	System Reference Code	233

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification E

DOT Marine Pollutants (10%):
(No Product Ingredients Listed)

DOT Severe Marine Pollutants (1%):
(No Product Ingredients Listed)

EPCRA 311/312 Chemicals and RQs (>.1%) :

- Benzene, ethyl- (1000 lb final RQ; 454 kg final RQ)
- Phenol (1000 lb final RQ; 454 kg final RQ)
- Xylenes (o-, m-, p- isomers) (100 lb final RQ; 45.4 kg final RQ)

EPCRA 302 Extremely Hazardous (>.1%) :

- Phenol (500 lb lower threshold TPQ; 10000 lb upper threshold TPQ)

EPCRA 313 Toxic Chemicals (>.1%) :

- Benzene, ethyl-
- Phenol
- Xylenes (o-, m-, p- isomers)

Mass RTK Substances (>1%) :

- Benzyl alcohol
- m-Xylene-alpha, alpha'-diamine
- Phenol
- Titanium dioxide
- Xylenes (o-, m-, p- isomers)

Mass Extraordinarily Haz Sub (>.01%) :

- Phenol

Penn RTK Substances (>1%) :

- Benzyl alcohol
- m-Xylene-alpha, alpha'-diamine
- Phenol
- Titanium dioxide
- Xylenes (o-, m-, p- isomers)

Penn Special Hazardous Substances (>.01%) :
(No Product Ingredients Listed)

Rhode Island Hazardous Substances (>.1%) :

- Benzene, ethyl-
- m-Xylene-alpha, alpha'-diamine
- Phenol
- Titanium dioxide
- Xylenes (o-, m-, p- isomers)

RCRA Status:
(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :

m-Xylene-alpha, alpha'-diamine
Phenol
Titanium dioxide
Xylenes (o-, m-, p- isomers)

N.J. Special Hazardous Substances (>.01%) :

Benzene, ethyl-
Phenol
Xylenes (o-, m-, p- isomers)

N.J. Env. Hazardous Substances (>.1%) :

Benzene, ethyl-
Phenol
Xylenes (o-, m-, p- isomers)

Proposition 65 – Carcinogens (>0%):

Benzene, ethyl-

Proposition 65 – Female Repro Toxins (>0%):

(No Product Ingredients Listed)

Proposition 65 – Male Repro Toxins (>0%):

(No Product Ingredients Listed)

Proposition 65 – Developmental Toxins (>0%):

(No Product Ingredients Listed)

Risk Phrases:

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R43: May cause sensitisation by skin contact.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.