

## **CROSSFIELD PRODUCTS CORPORATION**

www.crossfieldproducts.com

3000 E. Harcourt St. Rancho Dominguez, CA 90221 (Headquarters) (310)-886-9100 (8:00 AM – 5:00 PM Pacific Time) 140 Valley Rd. Roselle Park, NJ 07204 (908)-245-2800 (8:00 AM – 5:00 PM Eastern Time)

# SAFETY DATA SHEET

## **1. PRODUCT IDENTIFICATION**

## TRADE NAME (AS LABELED):

CHEMICAL NAME/CLASS: PRODUCT USE:

<u>SUPPLIER/MANUFACTURER'S NAME:</u> ADDRESS: (West Coast):

## ADDRESS: (East Coast):

## **EMERGENCY PHONE:**

DATE OF PREPARATION: REVISION DATE:

### Décor-Flor M Basecoat, Part B

Polyamine Solution Decking Basecoat Curative

Crossfield Products Corp. 3000 E. Harcourt St. Rancho Dominguez, CA 90221 (Headquarters)

140 Valley Rd. Roselle Park, NJ 07204

## CHEMTREC: 800-424-9300

July 26, 2007 July 10, 2020

## 2. HAZARD(S) IDENTIFICATION

#### GHS classification

Acute toxicity – Oral Category 4 Acute toxicity – Dermal Category 4 Skin Corrosion - Category 1B Serious Eye Damage - Category 1 Skin sensitization - Category 1 Specific target organ toxicity – repeated exposure – Oral Category 2

H373a: May cause damage to organs through prolonged or repeated exposure if swallowed



Signal Word: (Danger)

#### Hazard Statements:

H302+H312: Harmful if swallowed or in contact with skin H314: Causes severe skin burns and eye damage H317: May cause an allergic skin reaction

#### **Precautionary Statements:**

P102: Keep out of reach of children

- P103: Read label before use
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+P330+P353: IF SWALLOWED: rinse mouth. Do not induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to

- do. Continue rinsing.
- P310: Immediately call a POISON CENTER or doctor/physician
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.

P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Décor-Flor M Basecoat Part B (0463), SDS

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#### Hazards not otherwise classified

Harmful if swallowed Corrosive Components of the product may affect the nervous system Severe skin irritant Severe eye irritant May cause sensitization by skin contact Harmful in contact with skin

#### HMIS-RATINGS (SCALE 0 - 4)



Health = 3 Fire = 1 Reactivity = 0 NFPA RATING



### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS #	%	EXPOSURE LIMITS IN AIR					
		w/w	ACO	ЭIН	OS	HA		
			TLV	STEL	PEL	STEL	IDLH	OTHER
			mg/m <sup>3</sup>	mg/m³	mg/m³	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>
Methylene Oxide, polymer with benzeneamine, hydrogenated	135108-88-2	40 - 70	NE	NE	NE	NE	NE	NE
								WEEL (TWA)
benzyl alcohol	100-51-6	15-40	NE	NE	NE	NE	NE	44.2
								(10 ppm)
Aminoethyl piperazine, 1-2-, (AEP)	140-31-8	<15	NE	NE	NE	NE	NE	NE
Methylenebiscyclohexanamine, 4,4'-	1761-71-3	<5	NE	NE	NE	NE	NE	NE
Tris-2.4.6- (dimethylaminomethyl)phenol	90-72-2	<5	NE	NE	NE	NE	NE	NE
Water and other ingredients. The other ingredients are each present in this product. The other ingredients Balance Balance of this product do not contribute a significant, additional hazards. All hazard information pertinent to this product concentration in this product. The components present in the balance of this product do not contribute a significant, additional hazards. All hazard information pertinent to this product has been presented in the remaining sections of this Material Safety Data She per the requirements of Federal Occupational Safety and Health Hazard Communication Standard (29 CFR 1910.1200).					o this product y Data Sheet,			
VOC: Component = 0	VOC: Component = 0 Grams/Liter As Applied – 3 Grams/Liter (Part of Multi-Component System)							

NE = Not Established. C = Ceiling Limit. See Section 16 for Definitions of Terms Used.

NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1993 format.

#### **4. FIRST-AID MEASURES**

General advice:	Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Eye contact:	Hold eyelids apart, initiate and maintain gently and continuous irrigation until the patient receives medical care. If medical care is no promptly available, continue to irrigate for one hour. Rinse immediately with plenty of water also under the eyelids for at least 20 minutes.
Skin contact:	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.



Ingestion:

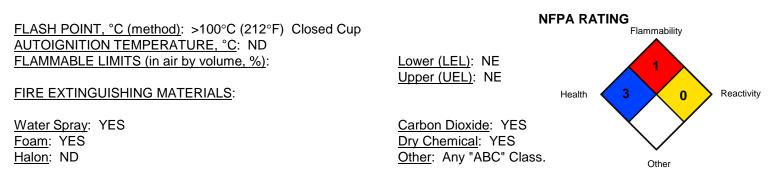
Inhalation:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

Move to fresh air.

Most important Symptoms/effects – acute and delayed Eye disease. Skin disorders and Allergies. Neurological disorders.

#### **5. FIRE-FIGHTING MEASURES**



<u>UNUSUAL FIRE AND EXPLOSION HAZARDS</u>: Run-off from fire control may cause pollution. Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination. If involved in a fire, this product may decompose to produce a variety of compounds (i.e. carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides and compounds). Emergency responders must wear the proper personal protective equipment suitable for the situation to which they are responding. Products of combustion are irritating to the respiratory tract and may cause breathing difficulty. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

Explosion Sensitivity to Mechanical Impact: Not sensitive. Explosion Sensitivity to Static Discharge: Not sensitive.

<u>SPECIAL FIRE-FIGHTING PROCEDURES</u>: Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers, if it can be done without risk to firefighters. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, discard or decontaminate fire response equipment before returning such equipment to service.

## 6. ACCIDENTAL RELEASE MEASURES

<u>SPILL AND LEAK RESPONSE</u>: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

The proper personal protective equipment for incidental releases (e.g.-1 L of the product released in a well-ventilated area) use impermeable gloves, specific for the material handled, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard-hat. Self Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, Select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

Absorb spilled liquid with polypads or other suitable absorbent materials. Neutralize residue with sodium bicarbonate and water rinse. Decontaminate the area thoroughly. Test area with litmus paper to confirm neutralization. Place all spill residue in a suitable container. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations (see Section 13, Disposal Considerations).



## 7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash hands after handling this product. Do not eat or drink while handling this material. Remove contaminated clothing immediately. Discard contaminated clothing items, or launder before re-use. Inform anyone handling such contaminated laundry of the hazards associated with this product. Use ventilation and other engineering controls to minimize potential exposure to this product.

STORAGE AND HANDLING PRACTICES: Do not store near acids. Keep containers tightly closed in a dry, cool and wellventilated space, preferably outdoors, above ground, and surrounded by dikes to contain spills. All employees who handle this material should be trained to handle it safely. Avoid breathing mists or sprays generated by this product. Use in a wellventilated location.

**For Non-Bulk Containers:** Open containers slowly, on a stable surface. Containers of this product must be properly labeled. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers, or in a diked area, as appropriate. Store containers away from incompatible chemicals. Keep container tightly closed when not in use. Wash thoroughly after using this material. Storage areas should be made of fire-resistant materials. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid, therefore, empty containers should be handled with care.

**Bulk Containers:** All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

**Tank Car Shipments:** Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cars must be level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tank (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be clean and free of incompatible chemicals, prior to connection to the tank car or vessel. Valves and hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

<u>PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT</u>: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Decontaminate equipment before maintenance begins by a triple-rinse with water followed, if necessary, by using sodium bicarbonate and an additional rinse. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

<u>VENTILATION AND ENGINEERING CONTROLS</u>: If required use a corrosion-resistant ventilation system separate from other exhaust ventilation systems to ensure that there is no potential for overexposure to sprays, or mists of this product and that exposures are below those in section 2 (Composition and Information on Ingredients). Ensure eyewash/safety shower stations are available near areas where this product is used.

<u>RESPIRATORY PROTECTION</u>: Maintain airborne contaminant concentrations below exposure limits listed in Section 2 (Composition and Information on Ingredients). If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, or applicable State regulations. If adequate ventilation is not available or if there is potential for airborne exposure above the exposure limits (listed in Section 2) a respirator may be worn up to respirator exposure limitations, check with respirator equipment manufactures recommendations/limitations. For a higher level of protection use positive pressure supplied air respiration protection or Self Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS:

Positive pressure, full-facepiece Self Contained Breathing Apparatus; or positive pressure, full-facepiece Self Contained Breathing Apparatus with an auxiliary positive pressure Self Contained Breathing Apparatus.

<u>EYE PROTECTION</u>: Splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

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HAND PROTECTION: Wear appropriate gloves for routine industrial use. Use appropriate gloves for spill response, as stated in Section 6 of this MSDS (Accidental Release Measures).

<u>BODY PROTECTION</u>: Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from natural rubber are generally acceptable, depending upon the task.



Vapor Respirator



**Safety Glasses** 

Safety Gloves



**Synthetic Apron** 

9. PHYSICAL and CHEMICAL PROPERTIES

<u>RELATIVE VAPOR DENSITY (air = 1)</u>: ND <u>SPECIFIC GRAVITY (water = 1)</u>: 1.03 <u>SOLUBILITY IN WATER</u>: < 0.1 g/l <u>VAPOR PRESSURE, mm Hg @ 21 °C</u>: ND <u>ODOR</u>: Amine LOG WATER/OIL DISTRIBUTION COEFFICIENT: Not available.

<u>EVAPORATION RATE (n-BuAc=1)</u>: ND <u>MELTING/FREEZING POINT</u>: Not established. <u>BOILING POINT</u>: >200°C (392°F) <u>pH</u>: Not Established (Alkaline)

<u>APPEARANCE AND COLOR</u>: This product is an amber liquid solution. <u>HOW TO DETECT THIS SUBSTANCE (warning properties)</u>: ND

## **10. STABILITY and REACTIVITY**

<u>STABILITY</u>: Stable under normal conditions.

<u>DECOMPOSITION PRODUCTS</u>: Thermal decomposition products of this solution can include a variety of compounds. (i.e. Nitric acid, Ammonia, Nitrogen Oxides, Carbon Monoxide and other compounds).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Avoid contact with acids, reactive metals, sodium hypochlorite, peroxides, and oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur by itself. Considerable exothermic reaction with epoxy resins is possible.

<u>CONDITIONS TO AVOID</u>: Avoid exposure or contact to extreme temperatures and incompatible chemicals.

#### **11. TOXICALOGICAL INFORMATION**

#### The Product Itself:

Acute toxicity Oral Dermal Inhalation Repeated dose toxicity Product:

LD50 (Rat): >500 mg/kg No date is available on the product itself No date is available on the product itself

Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28 day) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen a 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day. Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus, and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice. May cause damage to organs through prolonged or repeated exposure if swallowed.



Skin Corrosion/Irritation		
Product	Severe skin irritation	
Serious Eye Damage/Eye irritat		
Product	Severe eye irritation	
Respiratory or Skin Sensitizatio		
Product	Dermal sensitization to this pro	duct or component has bee seen in some humans.
Carcinogenicity	No data available	
Product	No data available Jation of Carcinogenic Risks to H	lumone
<b>U</b>	it or none present in regulated qu	
	am (NTP) Report on Carcinogens	
<b>3</b> , <b>3</b>	it or none present in regulated qu	
<b>e</b> ,	ed Substances (29 CFR 1910.10	
	it or none present in regulated qu	,
Germ Cell Mutagenicity	1 3 1	
In vitro		
Product	No data available	
In vivo		
Product	No data available	
Reproductive toxicity		
Product	No data is available on the pro-	duct itself.
Specific Target Organ Toxicity -		
Product	No data available	
Specific Target Organ Toxicity -	· ·	as to support through prolonged or reported our course
Product	No data available	ge to organs through prolonged or repeated exposure
Aspiration Hazard	NO Gala available	
Product	No data available	
Other effects:	No data available	
1-(2-Aminoethyl)piperazine (1	1 <u>40-31-8)</u>	(Species - Rat)
1-(2-Aminoethyl)piperazine (1 Acute Oral Toxicity		(Species – Rat) No data available
<b><u>1-(2-Aminoethyl)piperazine (1</u></b> Acute Oral Toxicity Inhalation:	l <b>40-31-8)</b> LD50: 2,097 mg/kg	No data available
<b><u>1-(2-Aminoethyl)piperazine (1</u></b> Acute Oral Toxicity Inhalation: Acute Dermal Toxicity	LD50: 2,097 mg/kg LD50: 866 mg/kg	No data available (Species – Rabbit)
<b>1-(2-Aminoethyl)piperazine (1</b> Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation	1 <b>40-31-8)</b> LD50: 2,097 mg/kg LD50: 866 mg/kg : Skin – Rabbit	No data available (Species – Rabbit) Result: Corrosive -4h
<b><u>1-(2-Aminoethyl)piperazine (1</u></b> Acute Oral Toxicity Inhalation: Acute Dermal Toxicity	1 <b>40-31-8)</b> LD50: 2,097 mg/kg LD50: 866 mg/kg : Skin – Rabbit	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to
<b>1-(2-Aminoethyl)piperazine (1</b> Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation	<b>140-31-8)</b> LD50: 2,097 mg/kg LD50: 866 mg/kg : Skin – Rabbit ye irritation:	No data available (Species – Rabbit) Result: Corrosive -4h
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1-(2-Aminoethyl)piperazine (1 Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation Serious eye damage/ey	<b>140-31-8)</b> LD50: 2,097 mg/kg LD50: 866 mg/kg : Skin – Rabbit ye irritation:	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause
1-(2-Aminoethyl)piperazine (1 Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation Serious eye damage/ey	I <b>40-31-8)</b> LD50: 2,097 mg/kg LD50: 866 mg/kg : Skin – Rabbit ye irritation: sitization:	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Hamster – ovary Result: negative
1-(2-Aminoethyl)piperazine (1 Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation Serious eye damage/ey Respiratory or skin sen Germ cell mutagenicity	I <b>40-31-8)</b> LD50: 2,097 mg/kg LD50: 866 mg/kg : Skin – Rabbit ye irritation: sitization:	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Hamster – ovary Result: negative Mouse – male and female Result: negative
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1-(2-Aminoethyl)piperazine (1 Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation Serious eye damage/ey Respiratory or skin sen Germ cell mutagenicity Reproductive toxicity: Specific target organ to Specific target organ to Specific target organ to Aspiration hazard Carcinogenicity: IARC: No component possible or com	<b>I40-31-8)</b> LD50: 2,097 mg/kg   LD50: 866 mg/kg   : Skin – Rabbit   ye irritation:   sitization:   :   exicity – single exposure   exicity – repeated exposure   of this product present at levels   of this product present at levels   of this product present at levels	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Hamster – ovary Result: negative Mouse – male and female Result: negative No data available – Rat oral, Paternal Effects: spermatogenesis (including genetic material, sperm morphology, motility, and count). No data available No data available No data available No data available Species (including genetic material, sperm morphology, motility, and count). No data available No data available No data available No data available
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1-(2-Aminoethyl)piperazine (1   Acute Oral Toxicity   Inhalation:   Acute Dermal Toxicity   Skin corrosion/irritation   Serious eye damage/ey   Respiratory or skin sen   Germ cell mutagenicity   Reproductive toxicity:   Specific target organ to   Specific target organ to   Aspiration hazard   Carcinogenicity:   IARC: No component   anticipated care   OSHA: No component   or potential care	I40-31-8)   LD50: 2,097 mg/kg   LD50: 866 mg/kg   : Skin – Rabbit   ye irritation:   sitization:   ::   exicity – single exposure   exicity – repeated exposure   of this product present at levels   product present product prese	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Hamster – ovary Result: negative Mouse – male and female Result: negative No data available – Rat oral, Paternal Effects: spermatogenesis (including genetic material, sperm morphology, motility, and count). No data available No data available No data available No data available Result: negative No data available No data available No data available Specter than or equal to 0.1% is identified as probable, RC. greater than or equal to 0.1% is identified as a known or
1-(2-Aminoethyl)piperazine (1   Acute Oral Toxicity   Inhalation:   Acute Dermal Toxicity   Skin corrosion/irritation   Serious eye damage/eye   Respiratory or skin sen   Germ cell mutagenicity   Reproductive toxicity:   Specific target organ to   Specific target organ to   Aspiration hazard   Carcinogenicity:   IARC: No component   possible or com   NTP: No component   or potential car   Additional Information:	<b>I40-31-8)</b> LD50: 2,097 mg/kg   LD50: 866 mg/kg   : Skin – Rabbit   ye irritation:   asitization:   :   exicity – single exposure   exicity – repeated exposure   of this product present at levels   afirmed human carcinogen by IAF   of this product present at levels   cinogen by NTP.   of this product present at levels	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Hamster – ovary Result: negative Mouse – male and female Result: negative No data available – Rat oral, Paternal Effects: spermatogenesis (including genetic material, sperm morphology, motility, and count). No data available No data available No data available No data available Result: negative No data available No data available No data available Specter than or equal to 0.1% is identified as probable, RC. greater than or equal to 0.1% is identified as a known or
1-(2-Aminoethyl)piperazine (1 Acute Oral Toxicity Inhalation: Acute Dermal Toxicity Skin corrosion/irritation Serious eye damage/ey Respiratory or skin sen Germ cell mutagenicity Reproductive toxicity: Specific target organ to Specific target organ to Aspiration hazard Carcinogenicity: IARC: No component possible or com NTP: No component anticipated care OSHA: No component or potential care	<b>I40-31-8)</b> LD50: 2,097 mg/kg   LD50: 866 mg/kg   : Skin – Rabbit   ye irritation:   asitization:   :   exicity – single exposure   exicity – repeated exposure   of this product present at levels   afirmed human carcinogen by IAF   of this product present at levels   cinogen by NTP.   of this product present at levels	No data available (Species – Rabbit) Result: Corrosive -4h (Species Rabbit): Result – Risk of serious damage to eyes. Maximization Test – guinea pig Result: May cause sensitization by skin contact. (OECD Test Guideline 406) Hamster – ovary Result: negative Mouse – male and female Result: negative No data available – Rat oral, Paternal Effects: spermatogenesis (including genetic material, sperm morphology, motility, and count). No data available No data available No data available No data available Result: negative No data available No data available No data available Specter than or equal to 0.1% is identified as probable, RC. greater than or equal to 0.1% is identified as a known or



1	I Alcohol: (100-51-6) Acute Oral Toxicity: LD50: 1	,230 mg/kg	(Species – N	/ale Rat)		
		1h): > 4.178 mg/l		Rat) OECD Test Guideline 403		
	Acute Dermal Toxicity LD50: >		(Species – F			
Skin corrosion/irritation: No skin irritation (Rabbit – 24 h) OECD Test Guideline 404 Serious eye damage/eye irritation: Eye irritation (Rabbit – 24 h) OECD Test Guideline 405						
						Carcino
	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.					
	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.					
		oduct present at level	s greater than o	r equal to 0.1% is identified as a known or		
			s greater than o	r equal to 01% is identified as a carcinogen		
	or potential carcinogen l		9	1		
Additio	nal Information:					
	RTECS: DN315000					
	Central nervous system depress					
	Liver – Irregularities – Based on	Human Evidence				
4,4'-Me	ethylenebis(cyclohexylamine): (	(1761-71-3)				
	Acute Oral Toxicity:	LD50: 380 m	ng/kg	(Rat-male and female)		
	Acute Inhalation Toxicity:	No data avai		, , , , , , , , , , , , , , , , , , ,		
	Acute Dermal Toxicity	LD50: >1,000	0 mg/kg	(Rabbit-male and female		
	Skin corrosion/irritation:	Corrosive	0 0	(Rabbit 24 hr)		
	Serious eye damage/eye irritatio	on: Corrosive		(Rabbit 24 hr)		
	Respiratory or skin sensitization		ensitization	(guinea pig) Buehler test		
		by skin conta	act	(OECD Test Guideline 406)		
	Germ cell mutagenicity:	Negative		Ames Test (S. typhimurium		
	Mutaghenicity (micronucleus tes	st) Negative		(mouse-male and female)		
	Carcinogenicity:					
		oduct present at level	s greater than o	r equal to 0.1% is identified as probable,		
	possible or confirmed hu			r equal to 0.1 % is identified as probable,		
		roduct present at level		r equal to 0.1% is identified as a carcinogen		
			s greater than o	r equal to 0.1% is identified as a known or		
	anticipated carcinogen b		groater than e			
		oduct present at level	s greater than o	r equal to 01% is identified as a carcinogen		
Reproc	ductive toxicity:	-	No data avai	ilable		
Specifi	c target organ toxicity - single exp	oosure	No data avai	ilable		
Specific target organ toxicity – repeated exposure Ingestion -			on – may cause damage to organs through ed or repeated exposure. Liver, Musculo-skeleta			
			system.	-		
Aspirat	tion hazard:		No data avai	ilable		
Additio	nal Information:					
	Repeated dose toxicity: Rat-ma RTECS: GX1530000	le female – Oral – NO	0AEL: 15 – 50 m	g/kg		
		to tissue of the muco adache, Nausea	ous membranes a	and upper respiratory tract, eyes, and skin.		



2,4,6-Tris(dimethylaminomethyl)phenol (90-72-2)			
Acute Oral Toxicity LD50: 2,169 mg/kg	(Species – Rat) (OECD Test Guideline 401)		
Inhalation:	No data available		
Acute Dermal Toxicity	No data availabel		
Skin corrosion/irritation: Skin – Rabbit	Result: Corrosive -4h (OECD Test Guideline 404)		
Serious eye damage/eye irritation:	(Species Rabbit): Result – Corrosive		
Respiratory or skin sensitization:	Maximization Test – guinea pig Result: The product is a skin sensitizer, sub-category 1B. (OECD Test Guideline 406)		
Germ cell mutagenicity:	Ames test S typhinurium Result: Negative		
Reproductive toxicity:	No data available		
Specific target organ toxicity – single exposure	No data available		
Specific target organ toxicity – repeated exposure	No data available		
Aspiration hazard	No data available		
Carcinogenicity:			
IARC: No component of this product present at level possible or confirmed human carcinogen by I	ls greater than or equal to 0.1% is identified as probable, ARC.		
ACGIH: No component of this product present a levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH			
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
	Is greater than or equal to 01% is identified as a carcinogen		
Additional Information:			
RTECS: SN3500000			
	bus membranes and upper respiratory tract, eyes, and skin.		
Cough, Shortness of breath, Headache, Nausea			
A <u>mutagen</u> is a chemical which causes permanent changes to genet	ic material (DNA) such that the changes will propagate		
through generational lines. An <u>embryotoxin</u> is a chemical which cau			
weeks of pregnancy in humans), but the damage does not propagat	te across generational lines. A <u>teratogen</u> is a chemical which		
causes damage to a developing fetus, but the damage does not pro			
substance which interferes in any way with the reproductive process			
12. ECOLOGICA			

# ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION. **Exotoxicity**

Fi	ish		
Pr	roduct	No data available	
C	opolymer of	LC50 (Poecilia reticulata [guppy], 96 hr):	63 mg/l
Fo	ormaldehyde and		
Ar	niline, hydrogenated		
A	quatic Invertebrates		
Pr	roduct	No data available	
C	opolymer of	EC50 (Daphna magna [water flea], 48 hr):	15.4 mg/l
Fo	ormaldehyde and		
Ar	niline, hydrogenated		
<u>Chronic h</u>	nazards to the aquation	<u>c environment</u>	
Fi	ish		
Pi	roduct	No data available	
A	quatic Invertebrates		
Pi	roduct	No data available	
Тс	oxicity to Aquatic Pla	ants	
C	opolymer of	ErC50 (Alga, 72 hr)	43.9 mg/l
Fo	ormaldehyde and		
A	niline, hydrogenated		



Persistence	and	Degradability
	anna	Degradastity

Persistence and Degradabilit Biodegradation	Σ Σ
Product Copolymer of Formaldehyde and Aniline, hydrogenated	No data available 0 % (28 d)
BOD/COD Ratio Product	No data available
Bioaccumulative potential	Nor /PCE
Bioconcentration Fac Product	No data available
Partition Coefficient n-octan	ol/water (log Kow)
Product	Log Kow: No data available.
<u>Mobility in soil:</u> Product	No data available
Other adverse effects:	Do not allow to enter soil, waterways or waste water canal.
4 (2 Amin a sthud) nin a ramin a	(4.40, 04, 0)

1-(2-Aminoethyl)piperazine (*	1 <u>40-31-8)</u>
Toxicity:	
Toxicity to fish: Toxicity to daphnia and other aquatic Invertebrates	static test LC50 – Pimephales promelas (fathead minnow) – ca. 2,190 mg/l – 96 h static test LC50 – Daphnia magna (Water flea) – 58 mg/l 48 h (OECD Test Guideline 202)
Toxicity to algae	EC50 – Pseudokirchneriella subcapitata (algae) – 495 mg/l – 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Respiration inhibition EC50 – Bacteria – 511 mg/l – 2 h
Persistence and degradability	
Biodegradability	aerobic – Exposure time 28 d Result: 0% - Not readily biodegradable. (OECD Test Guideline 301F)
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB asse	ssment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects

## Benzyl Alcohol: (100-51-6)

Toxicity:		
Toxicity to fish:	LC50 – Lepomis macrochirus (Bluegill)	10 mg/l – 96 h
	LC50 – Pimephales promelas (fathead minnow)	460 mg/l – 96 h
Toxicity to daphnia and	EC50 – Daphnia magna (Water flea)	55 mg/l – 24 h
Other aquatic Invertebrates	Daphnia magna (Water flea) 230 mg/l – 48 h (Ol	ECD Test Guideline 202)
Toxicity to algae	IC50 – Algae	700 mg/l – 72 h
Persistence and degradability	-	-
Biodegradability	Biotic/Aerobic – Exposure time 28 d	Result: 92-96% - Readily biodegradable
	Aerobic Biochemical oxygen demand - Exposur	e time 7 d
	Result: 92-96% - Readily biodegradable (OEC	D Test Guideline 301C)
Bioaccumulation	Low bioaccumulation potential	

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4,4'-Methylenebis(cyclohexylamine): (1761-71-3)				
Toxicity to fish:	static test LC50 – Leuciscus idus (golden orfe) – 67.8 mg/l (96 h) (DIN 38412)			
Toxicity to daphnia and other Aquatic invertebrates	static test EC50 – Daphnia magna (Water flea) – 9.24 mg/l (48 h)			
Toxicity to Algae:	static test EC50 – Desmodesmus subspicatus (green algae) – 140-200 mg/l (72 hr) NOEC – Desmodesmus subspicatus – 7.6 mg/l (OECD Test Guideline 201)			
Toxicity to bacteria:	EC50 – Pseudomonas putida – 156 mg/l (30 min)			
Persistence and degradability	Biodegradaability aerobic – Exposure time (28 d) result <10% According to the results of tests of this roduct is not readily biodegradable.			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			

2,4,6-Tris(dimethylaminomet	<u>nyl)phenol (90-72-2)</u>	
Toxicity:		
Toxicity to fish:	static test LC50 – Cyprinus carpio (carp) – 175 mg/l – 96 h	
Toxicity to algae	static test EC50 – Pseudokirchneriella subcapitata (algae) – 84 mg/l – 72 h (OECD Test Guideline 201)	
Persistence and degradability		
Biodegradability	aerobic – Exposure time 28 d Result: 4% - Not readily biodegradable.	
	(OECD Test Guideline 301D)	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Results of PBT and vPvB asse	ssment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted	
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects	

#### **13. DISPOSAL CONSIDERATIONS**

<u>PREPARING WASTES FOR DISPOSAL</u>: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. It may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

#### **14. TRANSPORTATION INFORMATION**

Department of Transportation: Proper Shipping Name: Class: UN/ID No.: Packing Group: Marine Pollutant

IMDG Shipping Data: Proper Shipping Name: Class: UN/ID No.: Packing Group: Marine Pollutant: Paint related material 8 UN3066 III No

Paint related material 8 UN3066 III No IATA Shipping Data: Proper Shipping Name: Class: UN/ID No: Packing Group: Marine Pollutant:

TDG: Proper Shipping Name: Class: UN/ID No.: Packing Group: Marine Pollutant: Paint related material 8 UN3066 III No

Paint related material 8 UN3066 III No



## **15. REGULATORY INFORMATION**

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class (es) -- Corrosive, Sensitizer.

<u>SARA REPORTING REQUIREMENTS</u>: The components of this product are not subject to the reporting requirements of Sections 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act. Hazard classification: Acute Health Hazard, Chronic Health Hazard.

SARA Threshold Planning Quantity: Not applicable.

TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY (RQ): None

OTHER FEDERAL REGULATIONS: Not applicable.

New Jersey Right-to know: The following is required composition information:

CAS Number:	140-31-8
Chemical Name:	n-Aminoethylpiperazine
RTK No.:	75

**Pennsylvania Right-to-know**: The following is required composition information:

CAS Number: Chemical Name: Common Name: Comment: 100-51-6 Benzenemethanol Benzyl Alcohol Hazardous Substance 140-31-8 n-Aminoethylpiperazine

CALIFORNIA PROPOSITION 65: Not listed.

Canadian DSL: All components of this product are on the Canadian DSL.

#### WHMIS Classification:

D1B - Poisonous and infectious material - Immediate and serious effects - Toxic D2B - Poisonous and infectious material - Other effects - Toxic E - Corrosive material



WHMIS Health Effects Criteria Met by this Chemical: D1B - Acute lethality - toxic - immediate D2B - Skin Sensitization - toxic - other

- E Corrosive to skin
- E TDG class 8 corrosive substance

#### WHMIS Ingredient Disclosure List:

•Included for disclosure at 0.1% or greater.

Décor-Flor M Basecoat Part B (0463), SDS



## **16. OTHER INFORMATION**

#### PREPARED BY:

BILL BEACH

CROSSFIELD PRODUCTS CORP,

THIS INFORMATION IS DRAWN FROM RECOGNIZED SOURCES BELIEVED TO BE RELIABLE. CROSSFIELD PRODUCTS CORP. MAKES NO GUARANTEES NOR ASSUMES ANY LIABILITY IN CONNECTION WITH THIS INFORMATION. THE USER SHOULD BE AWARE OF CHANGING TECHNOLOGY, RESEARCH, REGULATIONS AND ANALYTICAL PROCEDURES THAT MAY REQUIRE CHANGES HEREIN. THE ABOVE DATA IS SUPPLIED UPON THE CONDITION THAT PERSONS WILL EVALUATE THIS INFORMATION AND THEN DETERMINE ITS SUITABILITY FOR THEIR USE.

## **DEFINITIONS OF TERMS**

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

**CAS #**: This is the Chemical Abstract Service Number which uniquely identifies each constituent. It is used for computer-related searching.

#### EXPOSURE LIMITS IN AIR:

**ACGIH** - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

TLV - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (TWA), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level. Skin adsorption effects must also be considered. OSHA - U.S. Occupational Safety and Health Administration. PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order.

IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. The DFG - MAK is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA). NIOSH issues exposure guidelines called Recommended Exposure Levels (RELs). When no exposure guidelines are established, an entry of NE is made for reference.

#### HMIS HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: 0 (minimal acute or chronic exposure hazard); 1 (slight acute or chronic exposure hazard); 2 (moderate acute or significant chronic exposure hazard); 3 (severe acute exposure hazard; onetime over-exposure can result in permanent injury and may be fatal); 4 (extreme acute exposure hazard; onetime over-exposure can be fatal). Flammability Hazard: 0 (minimal hazard): 1 (materials that require substantial pre-heating before burning); 2 (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); 3 (Class IB and IC flammable liquids with flash points below 38°C [100°F]); 4 (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]). Reactivity Hazard: 0 (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); 2 (materials that are unstable but do not detonate or which can react violently with water); 3 (materials that can detonate when initiated or which can react explosively with water); 4 (materials that can detonate at normal temperatures or pressures).

NATIONAL FIRE PROTECTION ASSOCIATION: <u>Health Hazard</u>: 0 (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); 1 (materials that on exposure under fire conditions could cause irritation or minor residual injury); 2 (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); 3 (materials that can on short exposure could cause serious temporary or residual injury); 4 (materials that under very short exposure could cause death or major residual injury). <u>Flammability Hazard and Reactivity Hazard</u>: Refer to definitions for "Hazardous Materials Identification System".

#### FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (NFPA). <u>Flash Point</u> - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. <u>Autoignition Temperature</u>: The minimum temperature required to initiate combustion in air with no other source of ignition. <u>LEL</u> - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. <u>UEL</u> - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

#### TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: LD<sub>50</sub> - Lethal Dose (solids & liquids) which kills 50% of the exposed animals;  $LC_{50}$  - Lethal Concentration (gases) which kills 50% of the exposed animals; ppm concentration expressed in parts of material per million parts of air or water; mg/m<sup>3</sup> concentration expressed in weight of substance per volume of air; mg/kg quantity of material, by weight, administered to a test subject, based on their body weight in kg. Data from several sources are used to evaluate the cancer-causing potential of the material. The sources are: IARC - the International Agency for Research on Cancer; NTP - the National Toxicology Program, RTECS - the Registry of Toxic Effects of Chemical Substances, OSHA and CAL/OSHA. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other measures of toxicity include TDLo, the lowest dose to cause a symptom and TCLo the lowest concentration to cause a symptom; TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause death. BEI Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

#### **REGULATORY INFORMATION:**

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Other acronyms used are: <u>Superfund Amendments and Reauthorization Act</u> (SARA); the <u>Toxic Substance Control Act</u> (TSCA); Marine Pollutant status according to the **DOT**; California's Safe Drinking Water Act (Proposition 65); the <u>Comprehensive Environmental Response, Compensation, and Liability Act</u> (CERCLA or Superfund); and various state regulations. This section also includes information on the precautionary warnings which appear on the materials package label.