

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:

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

AME: Crossfield

2. HAZARD(S) IDENTIFICATION

ADDRESS: (East Coast):

EMERGENCY PHONE:

DATE OF PREPARATION: REVISION DATE:

Colorflake/TM Sealer, 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

February 4, 2021 First Issue



Signal Word: (Danger)

Hazard Statements:

H314 Causes severe skin burns and eye damage H302: Harmful if swallowed

Precautionary Statements (Prevention):

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P261: Avoid breathing dust / fume / gas / mist / vapors / spray
- P264: Wash skin thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P272: Contaminated work clothing should not be allowed our of the workplace
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P281: Use personal protective equipment as required
- P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Precautionary Statements (Response):

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell,. Rinse mouth, DO NOT induce vomiting IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician

Acute toxicity – Category 4 – Oral

GHS Classification

Skin corrosion – Category 1B Serious eye damage – Category 1 Skin sensitization – Category 1 Reproductive toxicity – Category 2

H361: Suspected of damaging fertility or the unborn child H317 May cause an allergic skin reaction



IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

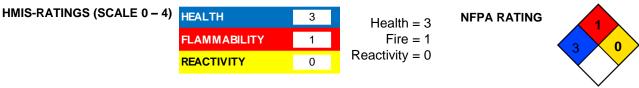
IF exposed or concerned: Get medical advice/ attention

If skin irritation or rash occurs. Get medical advice/ attention.

Wash contaminated clothing before reuse

Precautionary Statements (Disposal):

Dispose of contents/ container to an approved waste disposal plant.



3. COMPOSITION / INFORMATION ON INGREDIENTS CHEMICAL NAME CAS # EXPOSURE LIMITS IN AIR % w/w ACGIH OSHA TLV STEL PEL STEL IDLH OTHER mg/m³ mg/m³ mg/m³ mg/m³ mg/m³ mg/m³ WEEL (TWA) Benzyl Alcohol 100-51-6 10 - 40 NE NE NE NE NE 44.2 (10 ppm) 5-Amino-1,3,3trimethylcyclohexanemethanamine reaction 68609-08-5 20 - 30 NE NE NE NE NE NE products with 2,2'-[(1-methylethylidene)bis(4,1 phenyleneoxymethylene)]bis[ox Isophoronediamine 2855-13-2 10 - 20 NE NE NE NE NE NE TWA (Skin) 2579-20-6 10 - 30 1,3-Cyclohexanebis(Methylamine) NE NE NE NE NE 0.8 mg/m³ 0.1 ppm Nonylphenol 84852-15-3 5 - 10 NE NE NE NE NE NE The components present in the balance of this product do not contribute any significant, additional hazards. All hazard information pertinent to this produc Water and other ingredients. The other ingredients are each Balance has been presented in the remaining sections of this Material Safety Data present in less than 1 percent concentration in this product. Sheet, per the requirements of Federal Occupational Safety and Health Hazard Communication Standard (29 CFR 1910.1200).

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: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin contact: Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose



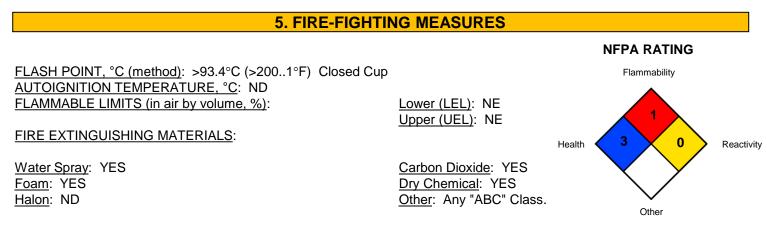
of leather items such as shoes, belts, and watch bands. Suitable emergency safety shower facility should be immediately available.

Eye contact: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Notes to physician: Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/ esophageal control if lavage is done. No specific antidote Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.



<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

<u>WORK PRACTICES AND HYGIENE PRACTICES</u>: 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: 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 well-ventilated 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.

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

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

BODY PROTECTION: 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

RELATIVE VAPOR DENSITY (air = 1): ND <u>SPECIFIC GRAVITY (water = 1)</u>: 1.0 <u>SOLUBILITY IN WATER</u>: Slightly soluble. <u>VAPOR PRESSURE, mm Hg @ 20 °C</u>: 0.2 mbar <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>: > 204°C (>399°F) <u>pH</u>: Not Established

APPEARANCE AND COLOR: Clear to hazy amber liquid HOW TO DETECT THIS SUBSTANCE (warning properties): ND

10. STABILITY and REACTIVITY

STABILITY: Stable.

<u>DECOMPOSITION PRODUCTS</u>: Thermal decomposition products of this solution can include a variety of compounds. (i.e. Aromatic compounds, Amines, Hydrocarbons, Phenolics, and other compounds).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Avoid contact with acids, halogenated hydrocarbons, and oxidizers.

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

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

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11. TOXICALOGICAL INFORMATION

TOXICITY DATA: Additional toxicology information for components greater than 1 percent in concentration is provided below		
Carcinogenicity: IARC: No component of this product present at levels possible or confirmed human carcinogen by IA ACGIH: No component of this product present at levels or potential carcinogen by ACGIH. NTP: No component of this product present at levels anticipated carcinogen by NTP.	(Rabbit – 24 h) OECD Test Guideline 405 s greater than or equal to 0.1% is identified as probable,	
5-Amino-1,3,3-trimethylcyclohexanemethanamine reaction pro phenyleneoxymethylene)]bis[ox: (68609-08-5) No data	oducts with 2,2'-[(1-methylethylidene)bis(4,1-	
Maximization Tes Germ cell mutagenicity: Hamster – ov Mutagenicity (micronucleus test): Mouse (Male & Fem Carcinogenicity: IARC: No component of this product present at levels possible or confirmed human carcinogen by IA ACGIH: No component of this product present at levels or potential carcinogen by ACGIH. NTP: No component of this product present at levels anticipated carcinogen by NTP.	ale) Result: negative s greater than or equal to 0.1% is identified as probable,	



1,3-Cyclohexanebis(Methylam	ine): (2579-20-6)	
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Acute Inhalation:	No data	,
Acute Dermal:	No data	
		es – Rabbit) OECD Test Guideline 404
Serious eye damage/e	· · ·	,
Respiratory or skin ser		linea Pig
		skin sensitization (OECD Test guideline 406)
Germ cell mutagenicity		· · · · · · · · · · · · · · · · · · ·
	cleus test) – Mouse, male and female	Result: Negative
Carcinogenicity:	cieds test) – mouse, male and female	
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	nfirmed human carcinogen by IARC.	nan or equal to 0.1% is identified as probable,
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		nan or equal to 0.1% is identified as a known or
	rcinogen by NTP.	
•		nan or equal to 01% is identified as a carcinogen
•	rcinogen by OSHA.	
Reproductive toxicity	No data	
Specific target organ toxicity -		а
Specific target organ toxicity -	repeated exposure: No data	a
Aspiration hazard	No data	a
Additional Information:		
Repeated dose toxicity	/ – rat – male and female – Oral – No obse	erved adverse effect level – 60 mg/kg – Lowest
observed adverse effe	ct level – 300 mg/kg	
RTECS: GU7000000		
	lestructive to tissue of the mucous membra	anes and upper respiratory tract, eyes, and skin.,
Material is extremely c		anes and upper respiratory tract, eyes, and skin., tion and edema of the bronchi, pneumonitis,
Material is extremely c spasm, inflammation a	ind edema of the larynx, spasm, inflamma	
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Specific Target Organ Systemic Toxicity (Single Exposure): Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure): For the component(s) tested: In animals, effects have been reported on the following organs: Central nervous system, muscles, thymus, urinary tract, respiratory tract, liver, and testes. Kidney effects an/or tumors have been observed in male rats. These effects are elieved to be species specific and unlikely to occur in humans.

<u>SUSPECTED CANCER AGENT</u>: The major components of this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, CAL/OSHA in concentrations > 0.1 %; and are therefore not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product is severely irritating and corrosive to contaminated tissue.

<u>SENSITIZATION TO THE PRODUCT</u>: Prolonged or repeated skin contact can result in the development of rashes, and other allergy-like symptoms.

<u>REPRODUCTIVE TOXICITY INFORMATION</u>: Listed below is information concerning the effects of this product and its components on the human reproductive system.

<u>Mutagenicity</u>: This product is not reported to produce mutagenic effects in humans.

Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.

<u>Teratogenicity</u>: This product is not reported to cause teratogenic effects in humans.

<u>Reproductive Toxicity</u>: This product is not reported to cause reproductive effects in humans.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An <u>embryotoxin</u> is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>teratogen</u> is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive process.

<u>BIOLOGICAL EXPOSURE INDICES</u>: Currently there are no Biological Exposure Indices (BEIs) associated with the components of this product.

<u>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE</u> Skin disorders can be aggravated by over-exposure to this product. Inhalation of this products mists may aggravate respiratory conditions.

<u>RECOMMENDATIONS TO PHYSICIANS</u>: Treat symptoms and eliminate over-exposure to this product.

12. ECOLOGICAL INFORMATION

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	C C	C C C C C C C C C C C C C C C C C C C
Biodegradability	Biotic/Aerobic – Exposure time 28 d Result: 92-96% - Readily biodegradable Aerobic Biochemical oxygen demand – Exposure time 7 d Result: 92-96% - Readily biodegradable (OECD Test Guideline 301C)	
Bioaccumulation	Low bioaccumulation potential	



5-Amino-1,3,3-trimethylcyclohexanemethanamine reaction products with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[ox: (68609-08-5)		
Toxicity:		
Toxicity to fish:	static test LL50 – Oncorhynchus mykiss (rainbow trout) (OECD Test guideline 203)	70.7 mg/l – 96 h
Toxicity to daphnia and Other aquatic Invertebrates	EL50 – Daphnia magna (Water flea) (OECD Test Guideline 202)	11.1 mg/l – 48 h
Toxicity to algae	static test EL50 – Pseudokirchneriella subcapitata (green algae) Growth inhibition (cell density reduction) OECD Test Gu	
Toxicity to bacteria	EC50 – Activated sludge - aerobic (OECD Test Guideline 209)	>1,000 mg/l – 3 h
Isophoronediamine: (2855-13-2)		
Toxicity:		
Toxicity to fish:	semi-static test LC50 – Leuciscus idus (Golden orfe)	110 mg/l – 96 h
	Immobilization EC50 – Daphnia magna (Water flea)	55 mg/l – 24 h
Other aquatic Invertebrates	Daphnia magna (Water flea) 230 mg/l – 48 h (OECD Test Guide	line 202)
Toxicity to algae	static test IC50 – Desmodesmus subspicatus (green algae)	700 mg/l – 72 h
Toxicity to bacteria	EC10 – Pseudomonas putida	1,120 mg/l – 18 h
Persistence and degradability		
Biodegradability	•	ot readily biodegradable
Bioaccumulative potential	No data	
Mobility in soil	No data	accoment not
Results of PBT and vPvB assessment Assessment not available as chemical safety assessment not required/not conducted		
Other adverse effects	An environmental hazard cannot be excluded in the event of unp disposal. Harmful to aquatic life.	rofessional handling or

1,3-Cyclohexanebis(Methylamine: (2579-20-6)

Toxicity:		
Toxicity to fish:	semi-static test LC50 – Leuciscus idus (Golden orfe (OECD Test Guideline 203)	130 mg/l – 96 h
Toxicity to daphnia and	static test EC50 – Daphnia magna (Water flea)	33.1 mg/l – 48 h
Other aquatic Invertebrates	(OECD Test Guideline 202)	-
Toxicity to algae:	static test EC50 – Pseudokirchneriella subcapitata (Green algae) (OECD Test guideline 201)	56.7 mg/l – 72 h
Toxicity to bacteria:	Growth inhibition EC50 – Sludge Treatment	>1,000 mg/l – 3 h
Persistence and degradability		
Biodegradability	Aerobic – exposure time 28 d Result: 29% - Not readily biodeg (OECD Test Guideline 209)	radable.
Bioaccumulative potential	No data	
Mobility in soil	No data	
Results of PBT and vPvB asses	sment: PBT/vPvB assessment not available as chemica required/not conducted	l safety assessment not
Other adverse effects	An environmental hazard cannot be excluded in the event of unpudisposal. Harmful to aquatic life with long lasting effects.	ofessional handling or

-



Nonylphenol: (84852-15-3)		
Toxicity:		
Toxicity to fish:	LC50 – Lepomis macrochirus (Bluegill)	0.209 mg/l – 96 h
Toxicity to daphnia and	EC50 – Daphnia magna (Water flea)	0.0844 mg/l – 24 h
Other aquatic		
Invertebrates		
Toxicity to algae	IC50 (static test) – Selenastrum capricornutum	(Green algae) 0.33 mg/l – 72 h
Persistence and degradability		
Biodegradability	Biotic/Aerobic – Exposure time 28 d	Result: 62% - Readily biodegradable
	(OECD Test guideline 301F) Remarks The 10 c	day time window criterion is not fulfilled
Bioaccumulative potential		
Bioaccumulation	Pimephales promelas (fathead minnow) - 28 d	Bioconcentration factor (BCF): 740
Other adverse effects		
An environmental hazar	d cannot be excluded in the event of unprofession	onal handling or disposal. Very toxic to
aquatic life with long las	sting 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:

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

Paint related materia	i /
8	1
UN3066	1-
II	1
F-A,S-B	
Yes (Nonylphenol)	

ICAO/IATA Shipping Data: Proper Shipping Name: Class: UN/ID No.: Packing Group: Cargo Packing Instruction: Passenger Packing Instruction: Marine Pollutant:

Paint related material 8 UN3066 II 855 851 Yes (Nonylphenol)

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:

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:

Not listed

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

CAS Number: 100-51-6 Chemical Name: Benzenemethanol Common Name: Benzyl Alcohol Comment: Hazardous Substance.

CALIFORNIA PROPOSITION 65: Not listed.

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

WHMIS:

D2B- Poisonous and Infectious Materials/Other Effects



Class D - Poisonous and Infectious Material Division 2 Materials Causing Other Toxic Effects E. Corrosive Material



Class E - Corrosive Material



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: LD₅₀ - 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/m³ 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</u>, <u>Compensation</u>, and <u>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.

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