# **SAFETY DATA SHEET**

GHS United States

## Section 1. Product and company identification

anderbilt Chemicals, LLC

holly Owned Subsidiary of R.T. Vanderbilt Holding (

Product name	MOLYVAN® FEI PLUS	In case of emergency
Code Supplier/Manufacturer	29183 Vanderbilt Chemicals, LLC 30 Winfield Street Norwalk, CT 06855	1-203-853-1400 Chemtrec: 1-800-424-9300 Outside US: +1-703-527-3887
Synonym Material uses	Not available. Petroleum additive	
Product type	Liquid.	

# Section 2. Hazards identification

**OSHA/HCS** status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). **Classification of the** SERIOUS EYE DAMAGE - Category 1 **TOXIC TO REPRODUCTION - Category 2** substance or mixture **GHS label elements** Hazard pictograms Signal word Danger **Hazard statements** Causes serious eye damage. Suspected of damaging fertility or the unborn child. **Precautionary statements Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear protective clothing: Recommended: lab coat. Wear eye or face protection: Recommended: splash goggles. IF exposed or concerned: Get medical advice or attention. IF IN EYES: Rinse Response cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Store locked up. Storage **Disposal** Dispose of contents and container in accordance with all local, regional, national and international regulations. Hazards not otherwise None known. classified

# Section 3. Composition/information on ingredients

#### Substance/mixture

Mixture

Ingredient name	CAS number	% by weight
partial engine oil inhibitor additive package	-	54.4 - 56.5
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	14 - 16
zinc compounds	-	15.5 - 15.6
process oil	-	12.3 - 14.1
diphenylamine	122-39-4	<0.16

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# Most important symptoms/effects, acute and delayedPotential acute health effectsEye contactCauses serious eye damage.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.Over-exposure signs/symptoms

# Section 4. First aid measures

Eye contact	Adverse symptoms may include the following: pain watering
	redness
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Adverse symptoms may include the following: stomach pains
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for con	tainment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal container.	
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 7. Handling and storage

This material may decompose and release hydrogen sulfide gas when heated above 100°C (212°F) or stored at temperatures above 80°C (176°F) for more than 5 days. If overheating occurs, do not enter area without positive pressure air-supplying respiratory protection.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
diphenylamine	ACGIH TLV (United States, 6/2013).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 10 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 10 mg/m <sup>3</sup> 10 hours.
process oil	ACGIH TLV (United States, 6/2013).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction
	NIOSH REL (United States, 10/2013).
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
	ACGIH TLV (United States).
	STEL: 10 mg/m <sup>3</sup>
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m <sup>3</sup> 8 hours.
hydrogen sulfide	ACGIH TLV (United States, 6/2013).
	TWA: 1 ppm 8 hours.
	STEL: 5 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 10 ppm 8 hours.
	TWA: 14 mg/m <sup>3</sup> 8 hours.
	STEL: 15 ppm 15 minutes.
	STEL: 21 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL Z2 (United States, 2/2013).
	CEIL: 20 ppm
	AMP: 50 ppm 10 minutes.
	NIOSH REL (United States, 10/2013).
	CEIL: 10 ppm 10 minutes.
	CEIL: 15 mg/m <sup>3</sup> 10 minutes.

Appropriate engineering controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	;,
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipmen will be necessary to reduce emissions to acceptable levels.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.	
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# Section 8. Exposure controls/personal protection

Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Personal protective equipment (Pictograms)	



# Section 9. Physical and chemical properties

## **Appearance**

Physical state	Liquid.
Color	Amber. [Dark]
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Closed cup: 178°C (352.4°F) [ASTM D6450]
Burning time	Not applicable.
Burning rate	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Density	1.01 g/cm³ [25°C (77°F)]
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# Section 9. Physical and chemical properties

Deletine develte	1.01
Relative density	1.01
Solubility	Insoluble in the following materials: cold water.
Solubility in water	Not available.
Partition coefficient: n- octanol/water	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Kinematic (100°C (212°F)): 0.09 to 0.12 cm²/s (9 to 12 cSt)

# Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid heating product above 100°C (212°F) or storing at temperatures above 80°C (176°F) for more than 5 days as this may cause product to decompose and release hydrogen sulfide gas.
Incompatible materials	No specific data.
Hazardous decomposition products	This material may decompose and release hydrogen sulfide gas when heated above 100°C (212°F) or stored at temperatures above 80°C (176°F) for more than 5 days.

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc component in process oil	Eyes - Severe irritant	Rabbit	-	-	-

#### **Conclusion/Summary**

Skin

Several components showed mild skin irritation.

#### **Sensitization**

Not available.

#### Conclusion/Summary

Skin

Product is not expected to be a skin sensitizer based on testing of the components.

# Section 11. Toxicological information

#### **Mutagenicity**

Not available.

Conclusion/Summary

Product is not expected to be mutagenic based on testing of the components.

**Carcinogenicity** 

Not available.

#### Reproductive toxicity

Not available.

Conclusion/Summary

benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Suspected of damaging fertility based on a reproductive/developmental toxicity screening test (OECD 421) as a range finder followed by an extended one-generation reproductive toxicity study (OECD 443).

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

<b>Aspiration</b>	hazard
	- I -

Not available.

Information on the likely	Routes of entry anticipated: Dermal, Inhalation, Eyes.
routes of exposure	

#### Potential acute health effects

Eye contact	Causes serious eye damage.
Inhalation	No known significant effects or critical hazards.
Skin contact	May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: pain or irritation redness blistering may occur

# Section 11. Toxicological information

# Ingestion Adverse symptoms may include the following: stomach pains

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health effect	t <u>s</u>
Not available.	
Conclusion/Summary	Diphenylamines: Overexposure to vapors from heating the product may cause eye and/or skin irritation, and respiratory tract irritation with symptoms such as, but not limited to, dizziness and flu-like symptoms.
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	Suspected of damaging fertility.

#### **Numerical measures of toxicity**

#### Acute toxicity estimates

Route	ATE value
Oral	2500 mg/kg
	2500 mg/kg

#### **Other information**

Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
molybdenum component	NOEC 100 mg/l	Micro-organism	28 days
, ,	Acute LC50 1.5 mg/l	Algae	72 hours
	Acute LC50 1.5 mg/l	Daphnia	48 hours
	Acute LC50 >10 mg/l	Fish	96 hours
	Acute NOEC 0.625 mg/l	Algae	72 hours
	Acute NOEC 1 mg/l	Daphnia	48 hours
zinc component in process oil	EC50 2.1 mg/l	Algae	72 hours

#### Persistence and degradability

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# Section 12. Ecological information

Test	Result	Dose	Inoculum
-	61 % - Readily - 28 days	-	-
Not available.			
No known sigr	ificant effects or critical hazards		
	- Diphenylamine vapor pressure environment.	- 61 % - Readily - 28 days   Diphenylamine is not readily biodegradable and vapor pressure is not expected to partition to we environment.   Not available.	- 61 % - Readily - 28 days - Diphenylamine is not readily biodegradable and due to low water vapor pressure is not expected to partition to water or air if releas environment.

# Section 13. Disposal considerations

Disposal methods	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc and molybdenum compounds)	9			Remarks Marine pollutant

## Section 14. Transport information

Section 14. 1	ransport	mormation			
IMDG Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc and molybdenum compounds)	9		<u>Remarks</u> Marine pollutant
IATA-DGR Class	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc and molybdenum compounds)	9	111	-

PG\* : Packing group

# Section 15. Regulatory information

<u>United States Inventory (TSCA 8b)</u> All components are active or exempted.

#### **U.S. Federal regulations**

TSCA 8(a) PAIR: diphenylamine; zinc compound; DIETHANOLAMINE

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: zinc compounds

#### SARA 302/304

#### **Composition/information on ingredients**

No products were found.

SARA 304 RQ Not applicable.

#### SARA 311/312

Classification

SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2

#### **Composition/information on ingredients**

Name	%	Classification
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	100	TOXIC TO REPRODUCTION - Category 2
zinc compounds	15.5 - 15.6	SERIOUS EYE DAMAGE - Category 1

#### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	zinc compounds	-	15.5 - 15.6
Supplier notification	zinc compounds	-	15.5 - 15.6

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

New YorkNone of the components are listed.	Massachusetts	The following components are listed: process oil
	New York	None of the components are listed.

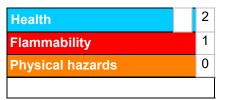
Validation date	: 11/11/2022 Date of previous issue	: 8/19/2022	
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## Section 15. Regulatory information

New Jersey	The following components are listed: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene; ZINC compounds; zinc compound
Pennsylvania	The following components are listed: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene; ZINC COMPOUNDS; zinc compound
California Prop. 65	None of the components are listed.
International regulations	
Australia Inventory (AIIC)	All components are listed or exempted.
Canada Inventory	All components are listed or exempted.
China Inventory (IECSC)	All components are listed or exempted.
Europe inventory	At least one component is not listed in EINECS but all such components are listed in ELINCS.
Japan Inventory (CSCL)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
New Zealand Inventory of Chem (NZIoC)	All components are listed or exempted.
Philippines Inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.

# Section 16. Other information

Hazardous Material Identification System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 



Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

## Section 16. Other information

#### <u>History</u>

Date of printing	11/11/2022
Validation date	11/11/2022
Date of previous issue	8/19/2022
Version	6
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	Not available.
Information contact	Vanderbilt Global Services, LLC Corporate Risk Management
	1-203-295-2143

Visit www.vanderbiltchemicals.com for more information.

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