

# **SAFETY DATA SHEET**

**GHS** 

United States English

# Section 1. Product and company identification

Product name VANLUBE® 289 HD In case of emergency

1-203-853-1400

Chemtrec: 1-800-424-9300

Outside US: +1-703-527-3887

Supplier/Manufacturer Vanderbilt Chemicals, LLC

50470

30 Winfield Street Norwalk, CT 06855

Synonym Not available.

Material uses 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 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1

SKIN SENSITIZATION - Category 1A

**GHS label elements** 

Code

**Hazard pictograms** 





Signal word Danger

**Hazard statements** Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

**Precautionary statements** 

Prevention Wear protective gloves. Wear protective clothing: Recommended: lab coat. Wear eye or

face protection: Recommended: splash goggles. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the

workplace.

**Response** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or

hair): Take off immediately all contaminated clothing. Rinse skin with water.

Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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.

Storage Store locked up.

**Disposal** Dispose of contents and container in accordance with all local, regional, national and

international regulations.

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## Section 2. Hazards identification

Hazards not otherwise classified

None known.

# Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	CAS number	% by weight
borate ester	-	67 - 75
triazole derivative process oil	-	21 4 - 12

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

## Section 4. First aid measures

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

Eye contact Get medica

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. Wash with plenty

of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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 delayed

### Potential acute health effects

**Eye contact** Causes serious eye damage.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes severe burns. May cause an allergic skin reaction.

**Ingestion** No known significant effects or critical hazards.

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## Section 4. First aid measures

#### Over-exposure signs/symptoms

**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

#### Indication of immediate medical attention and special treatment needed, if necessary

**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

**Unsuitable extinguishing** 

media

Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising from the chemical

ioni the chemical

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide

carbon monoxide nitrogen 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

In a fire or if heated, a pressure increase will occur and the container may burst.

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.

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## 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 containment 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 contractor.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.

When stored at low temperatures some solidification may occur. The product may be reliquified by heating to 60 - 80°C and mixing prior to use.

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# Section 7. Handling and storage

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
process oil	ACGIH TLV (United States, 3/2012).  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 1/2013).  TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist ACGIH TLV (United States).  STEL: 10 mg/m³ OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hours.

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 equipment 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**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.

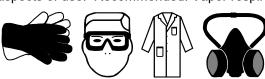
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## Section 8. Exposure controls/personal protection

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. Recommended: Vapor respirator.

Personal protective equipment (Pictograms)



# Section 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Color Gold.

Odor Oil-like [Slight]
Odor threshold Not available.

PH Not available.

Melting point Not available.

Boiling point Not available.

Flash point Closed cup: 160°C (320°F) [ASTM D6450]

Burning time

Burning rate

Evaporation rate

Flammability (solid, gas)

Lower and upper explosive

Not applicable.

Not available.

Not available.

Not available.

(flammable) limits

Vapor pressureNot available.Vapor densityNot available.

**Density** 0.968 mg/m³ [25°C (77°F)]

Relative density Not available.

**Solubility** Insoluble in the following materials: cold water.

Solubility in water Not available.

Partition coefficient: n- Not applicable.

octanol/water

Auto-ignition temperature

Decomposition temperature

SADT

Not available.

Not available.

Not available.

Not available.

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# 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 No specific data.

Incompatible materials No specific data.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
borate ester	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
triazole derivative	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	2356 mg/kg	-
process oil	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

#### Irritation/Corrosion

Not available.

#### **Conclusion/Summary**

**Skin** borate ester: Non-irritating to the skin. (Rabbit)

triazole derivative: Causes severe skin burns.

**Eyes** borate ester: Non-irritating to the eyes. (Rabbit)

triazole derivative: Causes serious eye damage.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
triazole derivative	skin	Guinea pig	Sensitizing

## **Mutagenicity**

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## **Section 11. Toxicological information**

Product/ingredient name	Test	Experiment	Result
borate ester	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 471	Subject: Bacteria	Negative
triazole derivative	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

**Conclusion/Summary** 

Under OECD Guideline No. 473 "In vitro Mammalian Chromosome Aberration Test", the borate ester induced structural chromosome aberrations in V79 cells (Chinese hamster cell line) in vitro. Therefore, the borate ester is considered to be clastogenic in this chromosome aberration test in the presence of S9 mix.

## **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

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

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Eyes.

## Potential acute health effects

**Eye contact** Causes serious eye damage.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes severe burns. May cause an allergic skin reaction.

**Ingestion** No known significant effects or critical hazards.

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

**Eye contact** Adverse symptoms may include the following:

pain watering redness

**Inhalation** No specific data.

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# **Section 11. Toxicological information**

**Skin contact** Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**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** 

Not available.

effects

Potential delayed effects Not a

Not available.

Long term exposure

Potential immediate

Not available.

effects

Potential delayed effects

Not available.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
borate ester triazole derivative	Sub-acute LD50 Oral	Rat	>1000 mg/kg	28 days
	Sub-acute NOEL Oral	Rat	60 mg/kg	28 days

General Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

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

**Acute toxicity estimates** 

Not available.

Other information Not available.

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
borate ester	NOEC >1000 mg/l	Micro-organism	3 hours
	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 87 mg/l	Daphnia	24 hours
	Acute EC50 56 mg/l	Daphnia	48 hours
	Acute LC50 42 mg/l	Fish	96 hours
triazole derivative	EC50 100 mg/l	Micro-organism	3 hours
	Acute EC50 >0.96 mg/l	Algae	72 hours
	Acute EC50 9.3 mg/l	Daphnia	24 hours
	Acute LC50 1.1 mg/l	Fish	96 hours

# **Section 12. Ecological information**

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
borate ester triazole derivative	OECD 301 F OECD 301B	81 % - 28 c 5 % - Not re	lays eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life	Aquatic half-life			Biodeg	radability
triazole derivative borate ester	-		-		Not rea	•

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
triazole derivative borate ester	5.3 >4.69	-	high high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects

No known significant effects or critical hazards.

# 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.

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	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (triazole derivative)	8	II	S S S S S S S S S S S S S S S S S S S	Remarks Marine pollutant

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VANLUBE® 289 HD						Product Code: 5047
Section 14. Transport information						
TDG Classification	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (triazole derivative)	8	II	¥2	Remarks Marine pollutant
ADR/RID Class	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (triazole derivative)	8	II		Remarks Marine pollutant
IMDG Class	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (triazole derivative)	8	II	***	Remarks Marine pollutant
IATA-DGR Class	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N. O.S. (triazole derivative)	8	II		

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) CDR Exempt/Partial exemption: Not determined

#### **SARA 302/304**

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ Not applicable.

**SARA 311/312** 

Classification SKIN CORROSION - Category 1B

SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A

## **Composition/information on ingredients**

Name	%	Classification
triazole derivative		SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A

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## **Section 15. Regulatory information**

State regulations

**Massachusetts** The following components are listed: process oil

None of the components are listed. **New York New Jersey** None of the components are listed. **Pennsylvania** None of the components are listed. 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. All components are listed or exempted. **Europe inventory Japan Inventory (CSCL)** All components are listed or exempted. Korea inventory (KECI) All components are listed or exempted. **New Zealand Inventory of Chemicals** All components are listed or exempted.

(NZIoC)

**Philippines Inventory (PICCS) Taiwan Chemical Substances** 

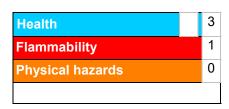
**Inventory (TCSI)** 

All components are listed or exempted.

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.

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



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## Section 16. Other information

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.

#### **History**

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**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 = Intermediate Bulk Container

IMDG = 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.

#### **Notice to reader**

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