# **SAFETY DATA SHEET**

GHS United States

## Section 1. Product and company identification

Anderbilt Chemicals, LLC

Product name	VANLUBE® 887E	In case of emergency
Code Supplier/Manufacturer	53088 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	Tolutriazole compound in ester solvent. Lubricant additives	

Product type Liquid.

## Section 2. Hazards identification

OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the	Not classified.
substance or mixture	
GHS label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.

## Section 3. Composition/information on ingredients

#### Substance/mixture

Mixture

Ingredient name	CAS number	% by weight
tolutriazole compound (NJTSR No. 800983-5044P) ester solution (NJTSR No. 800983-5045P)	-	50 50

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

## Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medic	al attention and special treatment needed, if necessary
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed

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.

#### 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
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## Section 5. Fire-fighting measures

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, protecti	ve 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. 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. 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. 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).
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. 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. This product has a tendency upon standing to exhibit some crystallization or gelling. If this happens, the product may be re-liquified by agitation and heating at 70 to 80°C.

# Section 7. Handling and storage

# Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits

None.

Appropriate engineering	Good general ventilation should be sufficient to control worker exposure to airborne
controls Environmental exposure controls	contaminants. 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. 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: safety glasses with side-shields. Recommended: safety glasses with side-shields
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.
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	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Personal protective equipment (Pictograms)	

# Section 9. Physical and chemical properties

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<u>Appoulation</u>	
Physical state	Liquid.
Color	Amber. [Light]
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Open cup: 270°C (518°F)
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 [15.6°C (60.1°F)]
Relative density	1.01
Solubility	Insoluble in the following materials: cold water.
Solubility in water	Not available.
Partition coefficient: n- octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Kinematic (room temperature): 39 cm <sup>2</sup> /s (3900 cSt) [at 25°C]

# 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
tolutriazole compound (NJTSR No. 800983-5044P)	LD50 Dermal	Rabbit	>2000 mg/kg	-
ester solution (NJTSR No. 800983-5045P)	LD50 Oral LC50 Inhalation Dusts and mists	Rat Rat	>5000 mg/kg >5.1 mg/l	- 4 hours
,	LD50 Dermal LD50 Oral	Rat Rat	>2000 mg/kg >2000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tolutriazole compound (NJTSR No. 800983-5044P)		Rabbit	-	4 hours	-
(,	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-

#### **Sensitization**

••••••	Route of exposure	Species	Result
tolutriazole compound (NJTSR No. 800983-5044P)	skin	Guinea pig	Not sensitizing
ester solution (NJTSR No. 800983-5045P)	skin	Guinea pig	Not sensitizing

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
tolutriazole compound (NJTSR No. 800983-5044P)	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Human	Negative
ester solution (NJTSR No. 800983-5045P)	-	Experiment: In vitro Subject: Bacteria	Negative
	-	Experiment: In vitro Subject: Mammalian-Animal	Negative

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure) Not available.

Validation date	1	10/3/2017	Date of previous issue	1	12/20/2013
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# Section 11. Toxicological information

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

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation.			
Potential acute health effects				
Eye contact	No known significant effects	or critical hazards.		
Inhalation	No known significant effects	or critical hazards.		
Skin contact	May be harmful in contact w	ith skin.		
Ingestion	May be harmful if swallowed	I.		
Symptoms related to the phys	sical, chemical and toxicologi	cal characteristic	<u>S</u>	
Eye contact	No specific data.		_	
Inhalation	No specific data.			
Skin contact	No specific data.			
Ingestion	No specific data.			
Delayed and immediate effectShort term exposurePotential immediateeffectsPotential delayed effectsLong term exposurePotential immediateeffectsPotential immediateeffectsPotential delayed effectsPotential delayed effects	Not available.			
Potential chronic health effe	<u>cts</u>	1	1	
Product/ingredient name	Result	Species	Dose	Exposure
tolutriazole compound (NJTSR No. 800983-5044P) ester solution (NJTSR No. 800983-5045P)	Sub-acute NOEL Oral Sub-acute NOEL Oral Sub-acute NOAEL Oral	Rat - Male Rat - Female Rat	150 mg/kg 1000 mg/kg 1450 mg/kg	28 days 28 days -
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	No known significant effects or critical hazards.			

### Numerical measures of toxicity

Acute toxicity estimates

Validation date : 10/3/2017 Date of previous issue : 12/20/2013

۷	VANLUBE® 887E					
\$	Section 11. Toxicological information					
	Route	ATE value				
	Oral Dermal	5000 mg/kg 2500 mg/kg				

#### **Other information**

Not available.

# Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
tolutriazole compound (NJTSR No. 800983-5044P)	Acute EC50 >5 mg/l	Algae	72 hours
· · · · · ·	Acute EC50 >5 mg/l	Daphnia	48 hours
	Acute LC50 >5 mg/l	Fish	96 hours
ester solution (NJTSR No. 800983-5045P)	Acute EC50 >1000 mg/l	Algae	72 hours
,	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >1000 mg/l	Fish	96 hours
Conclusion/Summary	Up to the maximum attainable organisms have been observ	e concentration of 5 mg/l no to: ed.	xic effects to aquatic

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
tolutriazole compound (NJTSR No. 800983-5044P) ester solution (NJTSR No. 800983-5045P)	-	0 % - 28 days 96 % - Readily - 28 days	-	-

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ester solution (NJTSR No. 800983-5045P)	>6	550.4	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

## Section 13. Disposal considerations

safe way. 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	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

## Section 15. Regulatory information

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

U.S. Federal regulations

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

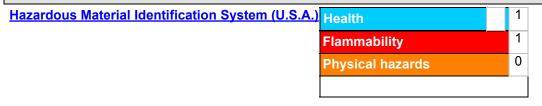
<u>SARA 302/304</u>	
Composition/information o	n ingredients
No products were found.	
SARA 304 RQ	Not applicable.
<u>SARA 311/312</u>	
Classification	Not applicable.
Composition/information o	<u>n ingredients</u>
No products were found.	
State regulations	
Massachusetts	None of the components are listed.
New York	None of the components are listed.
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 (AICS)	All components are listed or exempted.
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Canada inventory	All components are listed or exempted.
Validation date : 10/3/2017	Date of previous issue : 12/20/2013

## Section 15. Regulatory information

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. Please contact your supplier for information on the inventory status of this material.
	<b>EINECS: European Inventory.</b> This product contains the following chemical(s) for which one or more Pre-Market Notifications have been filed. Should you wish to export products containing this product into an EC country, contact Product Risk Manager at Vanderbilt Global Services, LLC at 203-295-2143 for more information.Chemical name: tolutriazole compound (NJTSR No. 800983-5044P)
Japan inventory (ENCS)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
New Zealand Inventory of Chemicals (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

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



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.



#### **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 = Internediate 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

### Section 16. Other information

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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