

SAFETY DATA SHEET

GHS

United States English

Section 1. Product and company identification

Product name VANLUBE® 0902 In case of emergency

1-203-853-1400

Supplier/Manufacturer Vanderbilt Chemicals, LLC Chemtrec: 1-800-424-9300

Outside US: +1-703-527-3887

30 Winfield Street +1-703-527Norwalk, CT 06855

Chemical name Proprietary blend of sulfur and phosphorus lubricant additives and organic corrosion

inhibitors

51320

Synonym Not available.

Material uses Lubricant 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 IRRITATION - Category 2

substance or mixture SERIOUS EYE DAMAGE - Category 1

TOXIC TO REPRODUCTION - Category 2

GHS label elements

Code

Hazard pictograms





Signal word Danger

Hazard statements Causes skin irritation.

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.

Wash thoroughly after handling.

Response IF exposed or concerned: Get medical advice or attention. Take off contaminated

clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation 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.

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
mixture of sulfurized hydrocarbons	-	25 - 50
sulfur compound	-	10 - 30
amine phosphate	-	10 - 30
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	10 - 30
diphenylamine	122-39-4	0.1 - 0.3

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 a

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 delayed

Potential acute health effects

Eye contact Causes serious eye damage.

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

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Section 4. First aid measures

Ingestion No known significant effects or critical hazards.

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-aidersNo 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

Hazardous thermal

from the chemical

decomposition products

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

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.

Remark

Hydrogen disulfide may be released at temperatures above 60°C (140°F)

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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). 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.

Headspace of storage vessel may contain small amounts (ppm levels) of hydrogen sulfide.

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Section 7. Handling and storage

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits	
ACGIH TLV (United States, 3/2015).	
TWA: 10 mg/m³ 8 hours.	
ACGIH TLV (United States, 3/2015).	
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/m³ 8 hours.	
STEL: 15 ppm 15 minutes.	
STEL: 21 mg/m³ 15 minutes.	
OSHA PEL ZŽ (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/m³ 10 minutes.	

Appropriate engineering controls

Environmental exposure 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.

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: 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.

Section 8. Exposure controls/personal protection

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 Clear Amber.
Odor Sulfurous.
Odor threshold Not available.
pH Not available.
Melting point Not available.
Boiling point Not available.

Flash point Closed cup: >98°C (>208.4°F) [Pensky-Martens]

Burning timeNot applicable.Burning rateNot applicable.Evaporation rateNot available.

Flammability (solid, gas) Hydrogen disulfide may be released at temperatures above 60°C (140°F)

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressure Not available.
Vapor density Not available.

Density 1 to 1.06 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

Not available.

Not available.

Not available.

Viscosity Not available.

Section 10. Stability and reactivity

ReactivityNo 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 temperatures above 60°C (140°F) as hydrogen disulfide may be released.

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
mixture of sulfurized hydrocarbons	LD50 Dermal	Rabbit	38700 mg/kg	-
	LD50 Oral	Rat	6500 mg/kg	-
sulfur compound	LD50 Dermal	Rabbit	>2000 mg/kg	-
·	LD50 Oral	Rat	16000 mg/kg	-
amine phosphate	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
amine phosphate	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-

Conclusion/Summary

Skin sulfur compound: Non-irritating to the skin. (Rabbit)

benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Non-

irritating to the skin. (Rabbit)

mixture of sulfurized hydrocarbons: Non-irritating to the skin.

Eyes sulfur compound: Non-irritating to the eyes. (Rabbit)

benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Non-

irritating to the eyes. (Rabbit)

mixture of sulfurized hydrocarbons: Non-irritating to the eyes.

Sensitization

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Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
sulfur compound benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	skin skin	Mouse Guinea pig	Not sensitizing Not sensitizing

Mutagenicity

Product/ingredient name	Test	Experiment	Result
mixture of sulfurized hydrocarbons	-	Subject: Mammalian-Animal	Negative
sulfur compound	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Human	Negative
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	OECD 471	Experiment: In vitro Subject: Bacteria	Negative

Carcinogenicity

Not available.

Conclusion/Summary

The International Agency for Research on Cancer (IARC) determined that there was inadequate evidence in humans and sufficient evidence in experimental animals for cancer. The overall evaluation is Group 2B. OSHA indicates that when present in mixtures at concentrations of less than 1 percent, the label warning is optional.

Reproductive toxicity

Product/ingredient name	Maternal	Fertility	Development	Species	Dose	Exposure
	toxicity		toxin			
sulfur compound	-	-	-	Rat	Oral: 1000	-
					ppm NOAEL, Adult	
	-	-	-	Rat	Oral: >20000 ppm NOAEL, Offspring	-

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)

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Section 11. Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact Causes serious eye damage.

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

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.

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 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
sulfur compound	Sub-acute NOAEL Oral	Rat	1000 ppm	-

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.

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Section 11. Toxicological information

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

Fertility effects Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	12500 mg/kg
Dermal	5580.36 mg/kg

Other information

benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Based on available data, the classification criteria for specific target organ toxicity (STOT) repeated exposure are not met.

A combined repeated-dose/reproductive/developmental toxicity screening test in rats via gavage was conducted at levels of 25, 75 and 225 mg/kg/bw/day. No deaths or treatment-related signs of toxicity, behavioral assessments, functional performance or sensory reactivity were noted at any dose. Hepatic toxicity was noted for animals in both sexes at 225 mg/kg bw/day.

Repeated dose toxicity study, rat, gavage, 28 days: LOEL = 125 mg/kg bw/day

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
sulfur compound	Acute EC50 >0.0325 mg/l	Algae	72 hours
·	Acute EC50 >0.052 mg/l	Daphnia	48 hours
	Acute EC50 >1000 mg/l	Micro-organism	3 hours
	Acute LC50 >0.06 mg/l	Fish	96 hours
	Acute NOEC 0.0325 mg/l	Algae	72 hours
	Acute NOEC 0.052 mg/l	Daphnia	48 hours
	Acute NOEC 0.06 mg/l	Fish	96 hours
	Acute NOEC 1000 mg/l	Micro-organism	3 hours
	Chronic NOEC 0.247 mg/l	Daphnia	21 days
mixture of sulfurized hydrocarbons	Acute EC50 >1000 mg/l	Daphnia	48 hours
	Acute EC50 250 to 500 mg/l	Fish	96 hours
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 51 mg/l	Daphnia	48 hours
	Acute IC50 >100 mg/l	Micro-organism	3 hours
	Acute LC50 >100 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
sulfur compound	OECD 301B	21 % - Not readily - 28 days	-	Activated sludge

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Section 12. Ecological information

Conclusion/Summary

Diphenylamine is not readily biodegradable and due to low water solubility and low vapor pressure is not expected to partition to water or air if released into the environment.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene sulfur compound mixture of sulfurized hydrocarbons	-	-	Not readily Not readily Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	high
sulfur compound	8.42	10.86	low

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

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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 active or exempted.

U.S. Federal regulations

TSCA 4(a) proposed test rules: heterocyclic nitrogen compound

TSCA 8(a) PAIR: diphenylamine

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

CERCLA: Hazardous substances.: hydrogen sulfide: 100 lbs. (45.4 kg);

Clean Water Act (CWA) 311: hydrogen sulfide

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen sulfide	0.025 - 0.05	Yes.	500	-	100	-

SARA 304 RQ 266666.7 lbs / 121066.7 kg [31050.9 gal / 117540.5 L]

SARA 311/312

Classification SKIN IRRITATION - Category 2

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	10 - 30	TOXIC TO REPRODUCTION - Category 2
mixture of sulfurized hydrocarbons	25 - 50	FLAMMABLE LIQUIDS - Category 4
amine phosphate	10 - 30	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

State regulations

Massachusetts None of the components are listed.

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Section 15. Regulatory information

New York None of the components are listed.

New JerseyThe following components are listed: Benzenamine, N-phenyl-, reaction products with

2,4,4-trimethylpentene

Pennsylvania The following components are listed: Benzenamine, N-phenyl-, reaction products with

2,4,4-trimethylpentene

California Prop. 65 None of the components are listed.

International regulations

Australia Inventory (AIIC)

Canada Inventory

All components are listed or exempted.

All components are listed or exempted.

All components are listed or exempted.

Europe inventory

All components are listed or exempted.

(NZIoC)

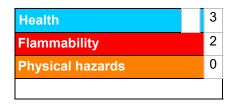
Philippines Inventory (PICCS) All components are listed or exempted.

Taiwan Chemical Substances All components are listed or exempted.

Inventory (TCSI)

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

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine for himself the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

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