

SAFETY DATA SHEET

GHS
United States
English (US)

Section 1. Product and company identification

Product name	VANLUBE® 1305	In case of emergency
Code	53485	1-203-853-1400
Supplier/Manufacturer	Vanderbilt Chemicals, LLC 30 Winfield Street Norwalk, CT 06855	Chemtrec: 1-800-424-9300 Outside US: +1-703-527-3887
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 substance or mixture TOXIC TO REPRODUCTION - Category 2

[GHS label elements](#)

Hazard pictograms



Signal word

Warning

Hazard statements

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.

Response

IF exposed or concerned: Get medical advice or attention.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

None known.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	CAS number	% by weight
engine oil inhibitor additives package	-	73 - 82
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	18 - 27
diphenylamine	122-39-4	<0.25

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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. 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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

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. Get medical attention. 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

No known significant effects or critical hazards.

Inhalation

No known significant effects or critical hazards.

Skin contact

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

No specific data.

Inhalation

No specific data.

Skin contact

No specific data.

Ingestion

No specific data.

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.

Section 4. First aid measures

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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. Avoid breathing 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.

Section 6. Accidental release measures

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 ingest. Avoid breathing vapor or mist. 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 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
diphenylamine	ACGIH TLV (United States, 3/2015). TWA: 10 mg/m ³ 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

Section 8. Exposure controls/personal protection

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: 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

Brown.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point

Not available.

Boiling point

Not available.

Flash point

Closed cup: 189°C (372.2°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.

Section 9. Physical and chemical properties

Vapor pressure	Not available.
Vapor density	Not available.
Density	Not available.
Relative density	Not available.
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	Not available.

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
diphenylamine	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Mouse	2720 mg/kg	-
	LD50 Oral	Rat	>800 mg/kg	-
	LD50 Oral	Rat	1165 mg/kg	-
phenolic compound	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
molybdenum compound	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
sulfur compound	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	16000 mg/kg	-

Section 11. Toxicological information

tolutriazole compound	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
molybdenum compound	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
tolutriazole compound	Skin - Mild irritant	Rabbit	-	4 hours	-
	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-

Conclusion/Summary

Skin

phenolic compound: Non-irritating to the skin.
 benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Non-irritating to the skin.
 sulfur compound: Non-irritating to the skin.
 diphenylamine: Non-irritating to the skin. (Rabbit)

Eyes

phenolic compound: Non-irritating to the eyes.
 sulfur compound: Non-irritating to the eyes.
 benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Non-irritating to the eyes.
 diphenylamine: Causes eye irritation. (Rabbit)

Sensitization

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

Mutagenicity

Product/ingredient name	Test	Experiment	Result
diphenylamine	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 486	Experiment: In vivo Subject: Mammalian-Animal	Negative
phenolic compound	OECD 473	Experiment: In vitro Subject: Mammalian-Animal	Negative
molybdenum 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

Section 11. Toxicological information

benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene sulfur compound	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	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
	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
tolutriazole compound			

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
diphenylamine	Positive - Oral - TC	Rat - Male, Female	0 to 250 ppm	2 years

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.

Product/ingredient name	OSHA	IARC	NTP
diphenylamine	-	2B	-

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
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).

molybdenum compound: Reproductive toxicity (90 days Two generation): NOEL: 3000 ppm (F0). No NOEL could be established in F1. Reproductive toxicity/ Developmental toxicity (90 days Two generation): NOEL (F0 & F1): 6000 ppm

phenolic compound: When administered orally to mice for a duration of 8 weeks, the NOAEL for reproduction and developmental toxicity was 600 mg/kg bw/day, respectively.

Section 11. Toxicological information

Teratogenicity

Not available.

Conclusion/Summary

phenolic compound: When administered orally to rabbits for a duration of 22 days, the NOAEL for maternal and developmental toxicity was 40 mg/kg bw/day, respectively. The LOAEL for maternal and developmental toxicity was 80 mg/kg bw/day, respectively.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
diphenylamine	Category 2	oral	blood system, kidneys, liver, spleen

Aspiration hazard

Not available.

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation, Eyes.

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 with skin.

Ingestion

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

No specific data.

Inhalation

No specific data.

Skin contact

No specific data.

Ingestion

No specific data.

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 effects

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
phenolic compound	Sub-acute NOAEL Oral	Rat	5 mg/kg	-
molybdenum compound	Sub-chronic NOAEL Oral	Rat	150 mg/kg	28 days
sulfur compound	Sub-acute NOAEL Oral	Rat	1000 ppm	-
tolutriazole compound	Sub-acute NOEL Oral	Rat - Male	150 mg/kg	28 days
	Sub-acute NOEL Oral	Rat - Female	1000 mg/kg	28 days

General

No known significant effects or critical hazards.

Carcinogenicity

Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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	6683.6 mg/kg
Dermal	2972.74 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
diphenylamine	Acute EC50 2.17 mg/l	Algae	72 hours
	Acute EC50 2 mg/l	Daphnia	48 hours
	Acute EC50 1.2 mg/l	Daphnia	48 hours
	Acute LC50 2.2 mg/l	Fish	96 hours
	Acute NOEC 0.37 mg/l	Algae	72 hours
	Chronic NOEC 0.16 mg/l	Daphnia	21 days
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

Section 12. Ecological information

phenolic compound	NOEC >3 mg/l Acute EC50 >100 mg/l Acute LC50 >100 mg/l Chronic NOEC <0.01 mg/l Chronic NOEC 0.001 mg/l	Algae Daphnia Fish - Oncorhynchus mykiss Daphnia Fish - Danio rerio	72 hours 48 hours 14 days 21 days 36 days
molybdenum compound	NOEC 100 mg/l Acute LC50 1.5 mg/l Acute LC50 1.5 mg/l Acute LC50 >10 mg/l Acute NOEC 0.625 mg/l Acute NOEC 1 mg/l Acute EC50 >100 mg/l	Micro-organism Algae Daphnia Fish Algae Daphnia Algae	28 days 72 hours 48 hours 96 hours 72 hours 48 hours 72 hours
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Acute EC50 51 mg/l Acute IC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia Micro-organism Fish	48 hours 3 hours 96 hours
tolutriazole compound	Acute EC50 >5 mg/l Acute EC50 >5 mg/l Acute LC50 >5 mg/l	Algae Daphnia Fish	72 hours 48 hours 96 hours

Conclusion/Summary

phenolic compound: No effects at its water solubility.
Tested above the maximum solubility.

tolutriazole compound: Up to the maximum attainable concentration of 5 mg/l no toxic effects to aquatic organisms have been observed.

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
diphenylamine	OECD 301D	26 % - Not readily - 28 days	-	-
molybdenum compound	-	61 % - Readily - 28 days	-	-
sulfur compound	OECD 301B	21 % - Not readily - 28 days	-	Activated sludge
tolutriazole compound	-	0 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
phenolic compound	-	-	Not readily
molybdenum compound	-	-	Readily
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	-	-	Not readily
sulfur compound	-	-	Not readily
diphenylamine	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
phenolic compound	9.2	260	Low
molybdenum compound	>4.45	-	High
sulfur compound	8.42	10.86	Low
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	High
diphenylamine	3.5	151.36	Low

Mobility in soil

Section 12. Ecological information

Soil/water partition coefficient (K_{oc})

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	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (molybdenum compound)	9	III	 	Remarks Marine pollutant
IMDG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (molybdenum compound)	9	III	 	Remarks Marine pollutant
IATA-DGR Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (molybdenum compound)	9	III	 	Remarks Marine pollutant

Section 14. Transport information

PG* : Packing group

Section 15. Regulatory information

United States Inventory (TSCA 8b)

All components are active or exempted.

U.S. Federal regulations

TSCA 8(a) PAIR: diphenylamine

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

TOXIC TO REPRODUCTION - Category 2

Composition/information on ingredients

Name	%	Classification
diphenylamine	<0.25	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	18 - 27	TOXIC TO REPRODUCTION - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	diphenylamine	122-39-4	<0.25
Supplier notification	diphenylamine	122-39-4	<0.25

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

Massachusetts

The following components are listed: OIL MIST, MINERAL

New York

None of the components are listed.

New Jersey

The 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 (AIC)

All components are listed or exempted.

Canada Inventory

All components are listed or exempted.

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.

This product contains chemicals 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.

Japan Inventory (CSCL)

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

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

Health	1
Flammability	1
Physical hazards	0

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.)



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

Date of printing	6/5/2024
Validation date	6/5/2024
Date of previous issue	5/29/2024
Version	12

Section 16. Other information

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.

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