

SAFETY DATA SHEET

GHS

United States English

Section 1. Product and company identification

Product name VANLUBE® 8610 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

Norwalk, CT 06855

52677

Synonym Antimony dithiocarbamate and sulfurized olefin blend.

Material uses Lubricant Additive

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 SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available

for employees and other users of this product.

Classification of the

substance or mixture

Code

Not classified.

GHS label elements

Signal word No signal word.

Hazard statementsNo known significant effects or critical hazards.

Precautionary statements

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.Hazards not otherwiseNone known.

classified

Section 3. Composition/information on ingredients

Substance/mixture Mixture

Ingredient name	CAS number	% by weight
mixture of sulfurized hydrocarbons antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	-	52 48

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

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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.

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. 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 No known significant effects or critical hazards. No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

No specific data. Eye contact Inhalation No specific data. **Skin contact** No specific data. Ingestion No specific data.

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

Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

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

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:

Use an extinguishing agent suitable for the surrounding fire.

carbon dioxide carbon monoxide

metal oxide/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 Remark

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

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. 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. 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
Advice on general
occupational hygiene

Put on appropriate personal protective equipment (see Section 8).

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

Do not store below the following temperature: 0°C (32°F). 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. See Section 10 for incompatible materials before handling or use.

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Section 7. Handling and storage

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

Environmental exposure controls

Good general ventilation should be sufficient to control worker exposure to airborne 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: 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. > 8 hours (breakthrough time): neoprene

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)



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Section 9. Physical and chemical properties

Appearance

Physical state Liquid. Color Amber.

Odor Not available. Not available. **Odor threshold** pН Not available. **Melting point** Not available. **Boiling point** Not available.

Open cup: 110°C (230°F) [Cleveland.] Flash point

Burning time Not applicable. **Burning rate** Not applicable. **Evaporation rate** Not available.

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

Lower and upper explosive

(flammable) limits

Not available.

Not available. Vapor pressure Vapor density Not available. **Density** 1.16 g/cm³ 1.16 **Relative density**

Solubility Insoluble in the following materials: cold water.

Solubility in water Not available. Partition coefficient: n-

octanol/water

Not applicable.

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **SADT** Not available.

Kinematic: 2340 mm²/s (2340 cSt) [at 25°C] **Viscosity**

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.

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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	-
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	LD50 Dermal	Rat	>16000 mg/kg	-
,	LD50 Oral	Rat	>16400 mg/kg	-

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin Antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P): Non-irritating to the

skin. (Rabbit)

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

Eyes Antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P): Non-irritating to the

eyes. (Rabbit)

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

Sensitization

Product/ingredient name	Route of exposure	Species	Result
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	skin	Mouse	Not sensitizing

Mutagenicity

Product/ingredient name	Test	Experiment	Result
mixture of sulfurized hydrocarbons	-	Subject: Mammalian-Animal	Negative
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	OECD 471	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary

Antimony dialkyldithiocarbamate exhibited a weak positive response in a Micronucleus Assay.

Carcinogenicity

Not available.

Reproductive toxicity

Product/ingredient name	Maternal	Fertility	Development	Species	Dose	Exposure
	toxicity		toxin			
antimony	-	-	-	Rat	Oral:	-
dialkyldithiocarbamate (NJTSR No. 800983-5014P)					1000 mg/ kg	

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Section 11. Toxicological information

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, Inhalation, Eyes.

Potential acute health effects

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

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
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	Sub-acute NOEL Oral	Rat	1000 mg/kg	-

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.

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Section 11. Toxicological information

Developmental effects Fertility effects No known significant effects or critical hazards. No 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
mixture of sulfurized hydrocarbons	Acute EC50 >1000 mg/l	Daphnia	48 hours
	Acute EC50 250 to 500 mg/l	Fish	96 hours
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	Acute EL50 >100 mg/l	Algae	72 hours
	Acute EC50 0.054 mg/l mortality immobilization	Daphnia	21 days
	Acute EC50 0.084 mg/l Reproduction	Daphnia	21 days
	Acute NOEC 0.2 mg/l Reproduction	Daphnia	21 days
	Acute NOEC 0.063 mg/l mortality immobilization	Daphnia	21 days
	Acute NOEL 32 mg/l	Algae	72 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	OECD 301B	20 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P) mixture of sulfurized hydrocarbons	-	-	Not readily Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
antimony dialkyldithiocarbamate (NJTSR No. 800983-5014P)	>6.34	-	high

Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

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Section 12. Ecological information

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. 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 active or exempted.

U.S. Federal regulations

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	<0.052	Yes.	500	-	100	-

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Section 15. Regulatory information

SARA 304 RQ 222222.2 lbs / 100888.9 kg [22975.9 gal / 86973.2 L]

SARA 311/312

Classification Not applicable.

Composition/information on ingredients

Name	%	Classification
mixture of sulfurized hydrocarbons	52	FLAMMABLE LIQUIDS - Category 4

State regulations

MassachusettsNone of the components are listed.New YorkNone of the components are listed.New JerseyNone of the components are listed.PennsylvaniaNone of the components are listed.California Prop. 65None of the components are listed.

International regulations

Australia Inventory (AIIC)

Canada Inventory

All components are listed or exempted.

All components are listed or exempted.

China Inventory (IECSC)

All components are listed or exempted.

Europe inventory

Japan Inventory (CSCL)

Korea inventory (KECI)

All components are listed or exempted.

(NZIoC)

Philippines Inventory (PICCS)
Taiwan Chemical Substances

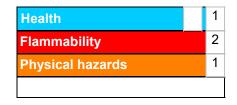
Inventory (TCSI)

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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Version 4

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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