

NAUGALUBE® 438L

Revision Date: 04/15/2015 Version: 1.0 Print Date: 04/22/2015 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name: NAUGALUBE® 438L Product Use Description: Antioxidant Substitued amine Synonyms: **Chemtura Corporation** Company: 199 Benson Road Middlebury, CT 06749 United States of America Telephone: (US) +1 866-430-2775 Emergency telephone CHEMTREC: (24 hours) 800-424-9300 number: Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898 For additional emergency telephone numbers see section 16 of the Safety Data Sheet. Prepared by Product Safety Department (US) +1 866-430-2775 MSDSRequest@chemtura.com Recommended use of the chemical and restrictions on use Recommended use Antioxidant • Restrictions on use Industrial use, Professional use, Consumer use :

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid	
Colour	brown	
Odour	characteristic	

GHS Classification

Acute aquatic toxicity	: Category 3
Chronic aquatic toxicity	: Category 4

GHS Label element



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Hazard statements	: H402 Harmful to aquatic life. H413 May cause long lasting ha	rmful effects to aquatic life.
Other hazards	: None	
Precautionary statements	 Prevention: P273 Avoid release to the environity Disposal: P501 Dispose of contents/ contant disposal plant. 	
Carcinogenicity:		
IARC	No component of this product prese equal to 0.1% is identified as probal human carcinogen by IARC.	
OSHA	No component of this product prese equal to 0.1% is identified as a carc carcinogen by OSHA.	
NTP	No component of this product prese equal to 0.1% is identified as a know by NTP.	
Environmental Effects	-	
Environmental Effects	: Harmful to aquatic organisms.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
bis(nonylphenyl)amine	36878-20-3	>= 70 - < 90 %
diphenylamine	122-39-4	>= 0.1 - < 1 %

SECTION 4. FIRST AID MEASURES

If inhaled	: Remove to fresh air. Obtain medical attention.	
In case of skin contact	: Remove contaminated clothing and Wash off with warm water and soap If symptoms persist, call a physician).
In case of eye contact	: Rinse immediately with plenty of wa If symptoms persist, call a physician	
If swallowed	: Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention.	
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Most important symptoms and effects, both acute and delayed Notes to physician	 None known. No information available. No information available. 	
SECTION 5. FIREFIGHTING MEA	SURES	
Suitable extinguishing media	: Extinguishing media - large fire Alcohol-resistant foam (on small fires) Carbon dioxide (CO2) Dry chemical Water spray	es
Unsuitable extinguishing media	: Water spray jet	
Specific hazards during firefighting	: May form explosive dust-air mi	ixture.
Specific extinguishing methods	: Prevent fire extinguishing wate water or the ground water syst	
Special protective equipment for firefighters	: In the event of fire, wear self-constant Full protective flameproof cloth Complete suit protecting again	ning

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment. Avoid contact with skin and eyes.
Environmental precautions	:	Do not allow material to contaminate ground water system.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid contact with skin, eyes Do not smoke. Avoid inhalation of vapour or 	5
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	Use with adequate ventilation. Wash thoroughly after handling.	
Conditions for safe storage	: Keep in a dry, cool place.	
Materials to avoid	: Strong oxidizing agents	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
diphenylamine	122-39-4	TWA	10 mg/m3	ACGIH
		TWA	10 mg/m3	OSHA P0
		TWA	10 mg/m3	NIOSH REL
Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location. Personal protective equipment				
Respiratory protection		: In the case of vapour formation use a respirator with an approved filter.		
Hand protection Remarks	: Impervious butyl rubber gloves			

Eye protection	:	Safety glasses with side-shields
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Skin and body protection	: Lightweight protective clothing
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid	
Color	: brown	
Odor	: characteristic	
Odour Threshold	: No data available	
рН	: No data available	
Solidification point	: -43 °C	
Boiling point/boiling range	: > 300 °C (989 hPa)	
Evaporation rate	: No data available	
Flash point	: >200 °C	
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	(999 hPa)	
Auto-flammability	: 440 °C1,030 hPa	
Upper explosion limit	: Upper flammability limit No data available	
Lower explosion limit	: lower flammability limit No data available	
Vapour pressure	: < 0.01 hPa (25 °C)	
Relative vapour density	: No data available	
Relative density	: 0.95	
Density	: 0.97 g/cm3 (20 °C)	
Solubility(ies)		
Water solubility	: < 0.00001 g/l (20 °C)	
	No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: log Pow: > 7.6estimated	
Auto-ignition temperature	: No data available	
Viscosity		
Viscosity, dynamic	: 17 mPa.s	
Viscosity, kinematic	: 17.9 mm2/s	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under cond	ditions of normal use.
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous	: Hazardous polymerisation does not occur	
reactions Conditions to avoid	: Heat, flames and sparks.	
	Exposure to moisture. Exposure to water vapour.	
Incompatible materials	: Strong oxidizing agents	
Hazardous decomposition	: Carbon oxides	
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products

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

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CMR effects diphenylamine (Component)	: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: No toxicity to reproduction
Aspiration toxicity (Product)	: No aspiration toxicity classification
Repeated dose toxicity (Product)	 Species: Rat, male and female Application Route: Oral NOEL: 25 mg/kg Information given is based on data obtained from similar substance
Sensitisation (Product)	 Species: Guinea pig Result: negative Remarks: Information given is based on data obtained from similar substances.
diphenylamine (Component)	: Species: Rabbit Result: Mild eye irritation
Eye irritation bis(nonylphenyl)amine (Component)	: Species: Rabbit Result: No eye irritation
Skin irritation (Product)	: Remarks: Information given is based on data obtained from similar substances.
Acute dermal toxicity (Product)	 LD50: > 2,000 mg/kg Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity (Product)	: Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Method: Calculation method
Acute oral toxicity (Product)	: LD50: > 5,000 mg/kg Species: Rat



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		Reproductive toxicity: No toxicity t	to reproduction
Further information (Product)	:	Based on available data, the class	sification criteria are not met.
ECTION 12. ECOLOGICAL INFO	DRI	MATION	
Ecotoxicity effects			
Toxicity to fish (Product)	:	Remarks: Information refers to the main con	nponent.
Toxicity to daphnia and other aquatic invertebrates (Product)	:	Remarks: Information refers to the main con	nponent.
Toxicity to fish (Chronic toxicity) (Product)	:	Remarks: No toxicity at the limit of solubility	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) (Product) Elimination information (per	: sis	No toxicity at the limit of solubility	
Bioaccumulation (Product)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(Product)	:	Remarks: No data available	
Mobility (Product)	:	Remarks: No data available	
Biodegradability (Product)	:	Remarks: Not readily biodegradable.	
Further information on ecol	ogy	1	
Ecotoxicology Assessment			
Chronic aquatic toxicity (Product) Results of PBT assessment (F		May cause long lasting harmful ef duct)	fects to aquatic life.
No data available Additional ecological information (Product)	:	May cause long-term adverse effe	ects in the aquatic environmer

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

SAP	6.0	SDS	2012-2	NA	GHS



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Waste from residues	: Dispose of as hazardous waste in national regulations.	n compliance with local and
Contaminated packaging	: Empty remaining contents. Dispose of as unused product.	

SECTION 14. TRANSPORT INFORMATION

ADR Not dangerous goods

RID Not dangerous goods

MERCOSUR Not dangerous goods

DOT Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

Additional advice: Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards



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SARA 302		: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
SARA 313	known CAS numbers that exceed t	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
US State Regulations				
California Prop 65		This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive barm		
The components of this	product are reported in the following in	nventories:		
US.TSCA	On TSCA Inventory			
DSL	All components of this product are	on the Canadian DSL.		
AICS	On the inventory, or in compliance			
NZIOC	Not in compliance with the inventor			
ENCS	On the inventory, or in compliance			
KECI	On the inventory, or in compliance			
PICCS IECSC	On the inventory, or in compliance			
IEUGU	On the inventory, or in compliance			

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.