

SAFETY DATA SHEET

NAUGARD® RM51-S



Version	Revision Date:	SDS Number:	Country : US
1.2	2019/03/31	400000002972	Language: Z8

SECTION 1. IDENTIFICATION

Recommended use of the chemical and restrictions on use

Recommended use : Antioxidant

Restrictions on use : Reserved for industrial and professional use.

Manufacturer or supplier's details

Company:	<u>Supplier</u> SI Group USA (USAA), LLC 4 Mountainview Terrace Suite 200 Danbury, CT United States of America (USA) 06810
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Emergency telephone

Emergency telephone: +1 703-741-5970(CHEMTREC/US)
+44 (0) 1235 239 670(NCEC/EU)
0 512 8090 3042(NRCC/CHINA)
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation	: Category 2
Eye irritation	: Category 2A
Skin sensitization	: Category 1
Short-term (acute) aquatic hazard	: Category 2
Long-term (chronic) aquatic hazard	: Category 2

GHS label elements

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Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Polymer stabilizer

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
tris(nonylphenyl) phosphite	26523-78-4	>= 70 - < 90

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2,2'-methylenebis(6-nonyl-p-cresol)	7786-17-6	>= 10 - < 20
Phenol, 4-nonyl-, branched	84852-15-3	>= 1 - < 5

The exact percentage concentrations of components are being withheld as a trade secret in accordance with paragraph (i) of §1910.120

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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for fire-fighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- 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.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8.
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
tris(nonylphenyl) phosphite	26523-78-4
2,2'-methylenebis(6-nonyl-p-cresol)	7786-17-6
Phenol, 4-nonyl-, branched	84852-15-3

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Exposure controls

Engineering measures : Use mechanical ventilation for general area control.
Dust must be extracted directly at the point of origin.
Ensure that extracted air cannot be returned to the workplace through the ventilation system.

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Odor Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 221 °C Method: open cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available

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Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Surface tension	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No decomposition if used as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong acids and strong bases.Strong oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure

Skin contact
Eye contact
Inhalation

Acute toxicity

Product:

Acute oral toxicity : Remarks: Not classified due to lack of data.

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Acute toxicity estimate:> 5,000 mg/kg
Method: Calculation method

Components:

tris(nonylphenyl) phosphite:

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Phenol, 4-nonyl-, branched:

Acute oral toxicity : LD50 (Rat): 1,000 - 2,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit):> 2,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: The product is not considered as being a skin irritant.

Components:

Phenol, 4-nonyl-, branched:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Corrosive

Serious eye damage/eye irritation

Product:

Remarks: The product is not considered as being an eye irritant.

Components:

tris(nonylphenyl) phosphite:

Species: Rabbit
Result: slight irritation

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Assessment: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

Phenol, 4-nonyl-, branched:

Species: Rabbit
Result: Severe irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitization

Product:

Remarks: Causes sensitization.

Components:

tris(nonylphenyl) phosphite:

Test Type: Maximization Test
Species: Guinea pig
Assessment: May cause sensitization by skin contact.
Method: OECD Test Guideline 406
Result: Causes sensitization.
GLP: yes

Phenol, 4-nonyl-, branched:

Test Type: Buehler Test
Species: Guinea pig
Assessment: Did not cause sensitization on laboratory animals.
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.

Test Type: Maximization Test
Species: Guinea pig
Assessment: Did not cause sensitization on laboratory animals.
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - : Not classified due to lack of data.
Assessment

Components:

2,2'-methylenebis(6-nonyl-p-cresol):

Germ cell mutagenicity - : Animal testing did not show any mutagenic effects.
Assessment

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Phenol, 4-nonyl-, branched:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity

Product:

Carcinogenicity - : Not classified due to lack of data.
Assessment

Components:

2,2'-methylenebis(6-nonyl-p-cresol):

Carcinogenicity - : Animal testing did not show any carcinogenic effects.
Assessment

Reproductive toxicity

Product:

Reproductive toxicity - : Not classified due to lack of data.
Assessment

Components:

2,2'-methylenebis(6-nonyl-p-cresol):

Reproductive toxicity - : No toxicity to reproduction
Assessment No effects on or via lactation

STOT-single exposure

Product:

Assessment: Not classified due to lack of data.

STOT-repeated exposure

Product:

Assessment: Not classified due to lack of data.

Aspiration toxicity

Product:

Not classified due to lack of data.

Further information

Product:

Remarks: No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.

Toxicity to algae : Remarks: No data is available on the product itself.

Toxicity to microorganisms : Remarks: No data is available on the product itself.

Components:

tris(nonylphenyl) phosphite:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7.1 mg/l
Exposure time: 96 h

Toxicity to algae : IC50 (Algae): > 100 mg/l

Toxicity to microorganisms : EC50 (Bacteria): > 100 mg/l

Phenol, 4-nonyl-, branched:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.135 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0.14 mg/l
Exposure time: 48 h

Toxicity to algae : (Scenedesmus species): 1.3 mg/l
Exposure time: 72 h

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

tris(nonylphenyl) phosphite:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

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Components:

tris(nonylphenyl) phosphite:

Partition coefficient: n-octanol/water : log Pow: ca. 14

2,2'-methylenebis(6-nonyl-p-cresol):

Partition coefficient: n-octanol/water : log Pow: 13.10

Phenol, 4-nonyl-, branched:

Bioaccumulation : Bioconcentration factor (BCF): 271

Partition coefficient: n-octanol/water : log Pow: 3.8 - 4.77 (25 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tris(nonylphenyl) phosphite)
Class	: 9
Packing group	: III
Labels	: Miscellaneous

IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tris(nonylphenyl) phosphite)
Class	: 9
Packing group	: III
Labels	: 9
EmS Code	: F-A,S-F
Marine pollutant	: yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated by DOT and TDG if shipped or transported in packaging less than 450 liters by road and/or rail.

Domestic regulation

49 CFR

UN/ID/NA number	: UN 3082
Proper shipping name	: Environmentally hazardous substances, liquid, n.o.s. (tris(nonylphenyl) phosphite)
Class	: 9
Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: yes(tris(nonylphenyl) phosphite)

Special precautions for user

Remarks	: Not regulated by DOT and TDG if shipped or transported in packaging less than 450 liters by road and/or rail., Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.
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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

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SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Phenol, 4-nonyl-, branched 84852-15-3

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

nonylphenol	25154-52-3
TIPA	122-20-3

Pennsylvania Right To Know

tris(nonylphenyl) phosphite	26523-78-4
2,2'-methylenebis(6-nonyl-p-cresol)	7786-17-6
Phenol, 4-nonyl-, branched	84852-15-3
nonylphenol	25154-52-3
Phenol, nonyl-, manuf. of, by-products from, high-boiling	90481-05-3
TIPA	122-20-3

New Jersey Right To Know

tris(nonylphenyl) phosphite	26523-78-4
2,2'-methylenebis(6-nonyl-p-cresol)	7786-17-6
Phenol, 4-nonyl-, branched	84852-15-3
nonylphenol	25154-52-3
Phenol, nonyl-, manuf. of, by-products from, high-boiling	90481-05-3

California Prop 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

REACH : Not in compliance with the inventory

TSCA : On TSCA Inventory

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DSL	:	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
	:	2-nonyl-p-cresol
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
TCSI	:	Not in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
Phenol, 4-nonyl-, branched 84852-15-3

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise

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Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:

Flammability

1

Health 2

0

Instability

HMIS® IV:

Special hazard.

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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<** Phrase language not available: [Z8] CUST - 100000000012264 **>

US / Z8

Carechem24 International Worldwide Coverage

Emergency Phone Numbers:

Europe:	All European Countries	+44 (0) 1235 239 670
Asia Pacific:	East / South East Asia	Regional Number : +65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341

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	Indonesia	00780 3011 0293
	:Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285
	Vietnam	+65 3158 1255
	India	+65 3158 1198
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Bangladesh	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States / Canada	001866 928 0789
<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
	Mexico	+52 555 004 8763