

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

SECTION 1. IDENTIFICATION

Product identifier

Product name : WESTON® TNPP
Other means of identification : Weston TNPP

Recommended use of the chemical and restrictions on use

Recommended use : Antioxidant
Polymer stabilizer
Restrictions on use : For professional and industrial installation and use only.

Manufacturer or supplier's details

Supplier

Company : SI Group USA (USAA), LLC
Address : 4 Mountainview Terrace
Suite 200
Danbury, CT
United States of America (USA)
06810
E-mail address : msdsrequest@siigroup.com

Emergency telephone

Emergency Phone Number : CHEMTREC/US : +1 703-741-5970
NCEC/CHINA : 400 120 6011
NCEC/INDIA : 000 800 100 7479
NCEC/ROW : +44 1235 239670

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin sensitization : Category 1

GHS label elements

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date:
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Hazard pictograms

:



Signal Word

: Warning

Hazard Statements

: H317 May cause an allergic skin reaction.

Precautionary Statements

: **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Chemical nature

: Polymer stabilizer

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Tris(nonylphenyl) phosphite [TNPP]	26523-78-4	>= 90 - <= 100
Phenol, 4-nonyl-, branched	84852-15-3	>= 0 - < 3

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

: Inhalation of vapours or mists of the product may be irritating to the respiratory system.

Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attendance.

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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	: sensitizing effects Allergic reactions Irritant effects
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.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known.
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 for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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. Do not let product enter drains. 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	: Material can accumulate static charges from material handling management. Bond and ground as appropriate while recognizing that bonding and grounding alone may be insufficient to eliminate the potential hazard from static-accumulating flammable liquids. For additional recommendations, consult an applicable guideline such as National Fire Protection Association [NFPA] 77, "Recommended Practices on Static Electricity" and API RP "Recommended Practice 2003, Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" (2008) 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.
Materials to avoid	: Never allow product to get in contact with water during storage.
Further information on storage stability	: No decomposition if stored and applied as directed.

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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.

Environmental exposure controls

Water : Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless to light yellow

Odor : slight, phenol-like

Odor Threshold : No data available

pH : No data available

Melting point/range : 6 °C / 6 °C

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

Boiling point/boiling range	: 180 °C / 180 °C (4 hPa)
Flash point	: 207 °C / 207 °C Method: closed cup
Evaporation rate	: <Ether
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: Heavier than air
Relative density	: 0.98 (25 °C / 25 °C)
Bulk density	: No data available
Solubility(ies) Water solubility	: insoluble, hydrolyzes
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, 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

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date: 02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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	:	Heat, flames and sparks.
Incompatible materials	:	No data available
Hazardous decomposition products	:	This product may release the following: Carbon dioxide (CO ₂) Carbon monoxide Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: May cause skin irritation.

Components:

Tris(nonylphenyl) phosphite [TNPP]:

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

Result	:	No skin irritation
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Components:

Phenol, 4-nonyl-, branched:

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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

Serious eye damage/eye irritation

Product:

Result	:	No eye irritation
Remarks	:	No significant adverse effects were reported

Components:

Tris(nonylphenyl) phosphite [TNPP]:

Species	:	Rabbit
Result	:	slight irritation
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

Skin sensitization

May cause an allergic skin reaction.

Product:

Remarks	:	Causes sensitization.
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Components:

Tris(nonylphenyl) phosphite [TNPP]:

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

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date: 02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

Phenol, 4-nonyl-, branched:

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

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Product:

Remarks : No data available

STOT-repeated exposure

Product:

Remarks : No data available

Repeated dose toxicity

Product:

Remarks : No data available

Aspiration toxicity

Product:

No data available

Further information

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

Product:

Remarks : No data available

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/aquatic :
plants 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 [TNPP]:**

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

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

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 : EC50 (Daphnia): 0.14 mg/l
aquatic invertebrates Exposure time: 48 h

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

M-Factor (Acute aquatic : 10
toxicity)

M-Factor (Chronic aquatic : 10
toxicity)

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Tris(nonylphenyl) phosphite [TNPP]:

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

Phenol, 4-nonyl-, branched:

Bioaccumulation : Bioconcentration factor (BCF): 271

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

Mobility in soil

Product:

Stability in soil : Remarks: Adsorbs on soil.

Other adverse effects

Product:

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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.

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, Phenol, 4-nonyl-, branched)
Class : 9
Packing group : III
Labels : Class 9 - Miscellaneous Dangerous Goods

IMDG-Code

- UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(tris(nonylphenyl) phosphite, Phenol, 4-nonyl-, branched)
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 applicable for product as supplied.

Domestic regulation

49 CFR

- UN/ID/NA number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(tris(nonylphenyl) phosphite, Phenol, 4-nonyl-, branched)
Class : 9
Packing group : III

Version 1.8
Revision Date: 02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

Labels : Class 9 - Miscellaneous Dangerous Goods
ERG Code : 171
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
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SARA 311/312 Hazards : See section 2 for classified hazards based on component information

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

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

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 I 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

Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

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

REACH	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or 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	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On TSCA 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

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date:
02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

Further information

NFPA 704:

		Flammability
1		
2	Health	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.

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 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

SAFETY DATA SHEET

WESTON® TNPP



Version 1.8
Revision Date: 02/09/2021

Date of last issue: 06/23/2016
Date of first issue: 08/28/2014

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

Revision Date : 02/09/2021

The information and recommendations contained in this safety data sheet are, to the best of SI Group's knowledge, belief and experience, accurate and reliable as of the date of its publication and describe the product only with regard to safety requirements. It is the user's responsibility to confirm that it is using the most current available version of this safety data sheet. The information and recommendations herein are offered for the user's consideration and examination. Identified uses in this safety data sheet do neither represent an agreement on the quality of the Product nor a designated use. For the avoidance of doubt, nothing herein shall be construed as relieving the user of its responsibility to ensure that the product is suitable for the intended use and that any proprietary rights, existing laws and legislation are observed. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING THE PRODUCT DESCRIPTIONS, DATA OR INFORMATION HEREIN. This safety data sheet is neither a Certificate of Analysis (CoA) nor a technical data sheet and shall not be mistaken for a description of the product's specifications. If user repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the packaging. Appropriate warnings and safe-handling procedures should be provided to handlers and further users of the product. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.

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