

SAFETY DATA SHEET

ADDITIN RC 7115



Version 1.0 Revision Date: 02/27/2019 SDS Number: 103000025180 Date of previous issue: -
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : ADDITIN RC 7115
Material number : 05180910
Recommended use : Antioxidant agent

Manufacturer or supplier's details

Supplier : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
PittsburghPA 15275-1112
USA
Telephone : +1800LANXESS
+14128091000 (international)
Emergency telephone : CHEMTREC (800) 424 9300
International (703) 527 3887
Lanxess Emergency Phone (800) 410-3063

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Combustible dust

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms :



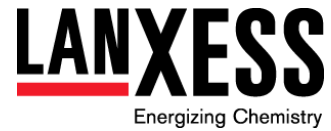
Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.
Suspected of damaging fertility.

Precautionary Statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF exposed or concerned: Get medical advice/ attention.

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Storage:

Store locked up.

Disposal:

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

Hazard Not Otherwise Classified (HNOC)

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : 2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol)
CAS-No. : Not Assigned

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol)	119-47-1	>=100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.
Get medical attention if symptoms occur.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.
Do not induce vomiting unless directed to do by medical personnel.
Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Effects : Suspected of damaging fertility.

Notes to physician : No special actions required.

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SECTION 5. FIRE-FIGHTING MEASURES

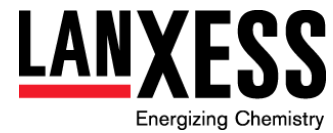
- Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Fine powder forms flammable and explosive mixtures in air.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
- Further information : 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.
Use a water spray to cool fully closed containers.
Move containers from fire if this can be done without risk.
Fight fire remotely due to the risk of explosion.
If this is impossible, withdraw from area and allow fire to burn.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Put on appropriate personal protection equipment.
Do not touch or walk through spilled material.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Provide adequate ventilation.
Avoid breathing dust.
Remove all sources of ignition.
- Environmental precautions : Prevent product from entering 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 : Move containers from spill area.
Non-sparking tools should be used.
Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Ensure vacuum cleaners are approved for explosible dusts. Do not use compressed air for cleaning.
Do not use compressed air for cleaning purposes.
Dispose of wastes in an approved waste disposal facility.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid exposure - obtain special instructions before use.
Avoid exposure during pregnancy.
Do not handle until all safety precautions have been read and understood.
Remove contaminated clothing and protective equipment before entering eating areas.
Workers should wash hands and face before eating, drinking and smoking.
Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).
Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation.

Use non-sparking tools and equipment. Consult National Fire Protection Association (NFPA) 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids for details on the safe handling and equipment design.

Conditions for safe storage : 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 closed when not in use.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Use appropriate container to avoid environmental contamination.
Empty containers retain residue and can be dangerous.
Do not reuse container.
Minimize dust generation and accumulation, especially on elevated surfaces (e.g., roof beams and trusses, ventilation ducts, wall sills). A dust layer just 1/32nd of an inch(0.793 mm) deep on elevated surfaces may create a dust cloud explosion hazard.

Recommended storage temperature : < 104 °F (< 40 °C)

Further information on storage stability : No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Dust-protection mask if there is a risk of dust formation.

Hand protection

Material : Natural Rubber
Wearing time : < 60 min

Eye protection : If contact with product is possible, wear safety glasses with side shields.

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

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid
Color : white
Odor : slight
Odor Threshold : No data available
pH : No data available
Melting point/range : > 255 °F (> 124 °C)
Boiling point/boiling range : 365 - 369 °F (185 - 187 °C)

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(0.07 hPa)

Flash point : 365 °F (185 °C)
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : May form combustible dust concentrations in air.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit : No data available

Vapor pressure : < 0.0099638 hPa (68 °F (20 °C))

Relative vapor density : No data available

Relative density : No data available

Density : 1.04 g/cm³ (68 °F (20 °C))

Bulk density : 320 kg/m³

Solubility(ies)
Water solubility : insoluble
0.00001 g/l

Partition coefficient: n-octanol/water : No data available

Ignition temperature : > 338 °F (> 170 °C)

Decomposition temperature : > 262 °F (> 128 °C)

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Minimum explosible dust concentration : In the case of dusty organic products the possibility of a dust explosion should always be considered.

Dust explosion class : St3

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Under normal conditions of storage and use, hazardous reactions will not occur.

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Chemical stability : The product is stable.

Possibility of hazardous reactions : Dust can form an explosive mixture in air.

Conditions to avoid : No data available

Incompatible materials : No specific data.

Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rat): > 10,000 mg/kg
GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Not classified based on available information.

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Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Routes of exposure: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: Did not cause sensitization on laboratory animals.
GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Genotoxicity in vitro : Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes

 Test Type: Ames test
 Test system: Escherichia coli
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative
 GLP: yes

 Test Type: Chromosome aberration test in vitro
 Test system: Chinese hamster lung cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative
 GLP: yes

 Test Type: In vitro mammalian cell gene mutation test
 Test system: Chinese hamster fibroblasts

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Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Species: Rat, (male)
Application Route: Oral
Exposure time: 18 month(s)
NOAEL: 12.7 mg/kg bw/day

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Suspected of damaging fertility.

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Effects on fertility : Species: Rat, male
Application Route: Oral
General Toxicity Parent: NOAEL: 12.5 mg/kg body weight
General Toxicity F1: NOAEL: 12.5 mg/kg body weight
Symptoms: Testicular damage in animals.
Method: OECD Test Guideline 421
GLP: yes

Species: Rat, female
Application Route: Oral
General Toxicity F1: NOAEL: 50 mg/kg body weight
Method: OECD Test Guideline 421
GLP: yes

Effects on fetal development : Species: Rat
Application Route: Oral
Dose: 200 milligram per kilogram
General Toxicity Maternal: NOAEL: 50 mg/kg body weight
Embryo-fetal toxicity.: 50 mg/kg body weight
Method: OECD Test Guideline 421

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Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Species: Rat, male
NOAEL: 12.7 mg/kg
Application Route: Oral
Exposure time: 1.5 yr
Number of exposures: daily
GLP: no
Remarks: Chronic toxicity

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): > 5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: Dosage caused no mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 4.8 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
Remarks: No toxicity at the limit of solubility.

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (microalgae)): > 5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Pseudokirchneriella subcapitata* (microalgae)): 1.3 mg/l
End point: Growth rate

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Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.34 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: no

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Biodegradability : Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: yes

Bioaccumulative potential

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 840
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient: n-octanol/water : log Pow: 6.25 (20 °C)
Method: OECD Test Guideline 117
GLP: no

Mobility in soil

No data available

Other adverse effects

Components:

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol):

Results of PBT and vPvB : This substance is not considered to be very persistent and

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assessment very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

SECTION 13. DISPOSAL CONSIDERATIONS

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Empty containers retain product residue; observe all precautions for product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

DOT

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

CERCLA

None

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust
Reproductive toxicity

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SARA 313

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

Massachusetts Right To Know

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol)	119-47-1	100
formaldehyde	50-00-0	0.02

Pennsylvania Right To Know

2,2'-methylene-bis-(4-methyl-6-tert.-butylphenol)	119-47-1	100
Impurities	Trade Secret	> 1
formaldehyde	50-00-0	0.02

California Prop. 65

WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TSCA inventory

TSCA : On TSCA Inventory

TSCA list

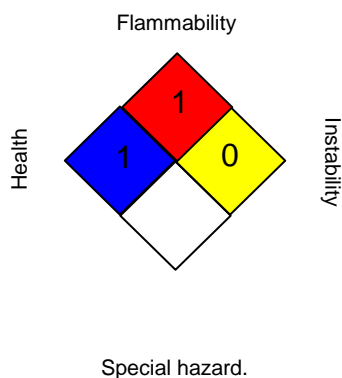
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS® IV:

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		0

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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LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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