ROYCO 899 MIL-PRF-23699 (C/I)



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SECTION 1. IDENTIFICATION

Product name : ROYCO 899 MIL-PRF-23699 (C/I)

Product code : 00000000062496108

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS

(412) 809-1000

lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

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

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms

Signal Word : Warning

Hazard Statements : Suspected of damaging fertility or the unborn child.

Precautionary Statements : Prevention:

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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.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
tris(methylphenyl) phosphate	1330-78-5	>= 1 - < 5
Benzenamine, N-phenyl-, reaction	68411-46-1	>= 0.1 - < 1
products with 2,4,4-trimethylpentene		

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

SECTION 4. FIRST AID MEASURES

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 per-

sonnel.

Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

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Symptoms : Adverse symptoms sometimes include the following:

Effects on fertility.

Effects on fetal development.

Effects : Suspected of damaging fertility or the unborn child.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Burning produces obnoxious and toxic fumes.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod- :

ucts

Carbon monoxide Carbon dioxide (CO2)

Oxides of phosphorus

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.

Special protective equipment:

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency 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. Do not breathe vapors, aerosols.

Forms slippery/greasy layers with water.

Environmental precautions : Prevent product from entering drains.

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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

Stop leak if safe to do so.

Move containers from spill area.

Wash spillages into an effluent treatment plant or proceed as

follows.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or

groundwater or into the soil.

Contaminated absorbent material may pose the same hazard

as the spilled product.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Remove contaminated clothing and protective equipment be-

fore 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 exposure during pregnancy.

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 contamina-

tion.

Empty containers retain residue and can be dangerous.

Do not reuse container.

Further information on stor-

age stability

Stable under recommended storage conditions.

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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 : Good general ventilation should be sufficient to control work-

er exposure to airborne contaminants.

Personal protective equipment

Respiratory protection : Breathing apparatus needed only when aerosol or mist is

formed.

In the case of vapor formation use a respirator with an ap-

proved filter.

Hand protection

Material : Polyvinyl chloride - PVC

Wearing time : < 60 min

Material : Neoprene Wearing time : < 60 min

Remarks : Gloves should be discarded and replaced if there is any indi-

cation of degradation or chemical breakthrough.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

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

Appearance : liquid

Physical state : liquid

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Color : clear

Odor : slight

Odor Threshold : No data available

pH : Not applicable

Pour point : $-65 \,^{\circ}\text{F} / -54 \,^{\circ}\text{C}$

Boiling point/boiling range : 750 °F / 399 °C

(39.8 hPa)

Flash point : $>= 475 \, ^{\circ}\text{F} / 246 \, ^{\circ}\text{C}$

Method: No information available.

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Burning number : 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 : No data available

Relative density : 0.99 - 1.1 (60.1 °F / 15.6 °C)

Density : 0.9908 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : slightly soluble

< 1 g/l

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

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Ignition temperature not determined

Decomposition temperature No data available

Self-Accelerating decomposi-

tion temperature (SADT)

: No data available

Viscosity

: 4.90 - 23.0 mPa.s (104 - 212 °F / 40 - 100 °C) Viscosity, dynamic

Method: ASTM D 445

Viscosity, kinematic : 4.7 mm2/s (212 °F / 100 °C)

25.5 mm2/s (104 °F / 40 °C)

12000 mm2/s (-40 °F / -40 °C)

Explosive properties No data available

Oxidizing properties No data available

Molecular weight No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability The product is chemically stable.

Possibility of hazardous reac-

tions

Hazardous polymerization does not occur.

Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Conditions to avoid Heat.

Incompatible materials Strong acids and strong bases

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 Skin Absorption

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Acute toxicity

Not classified based on available information.

Product:

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

Method: Calculation method

Components:

tris(methylphenyl) phosphate:

Acute oral toxicity : LD50 (Rat, male and female): > 20,000 mg/kg

Method: Standard acute method

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 11.1 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist Method: Standard acute method

GLP: no

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): 3,700 mg/kg

Method: Standard acute method

GLP: no

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: no

Assessment: The substance or mixture has no acute dermal

oxicity

Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:

tris(methylphenyl) phosphate:

Species : Rabbit Exposure time : 24 h

Method : Draize Test

GLP : no

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Remarks : Mild skin irritation

(not subject to classification)

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Mild skin irritation

GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

tris(methylphenyl) phosphate:

Species : Rabbit

Result : No eye irritation

Exposure time : 24 h GLP : no

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

tris(methylphenyl) phosphate:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse

Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

GLP : ves

Remarks : Not classified due to inconclusive data.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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Test Type : Maximization Test

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Routes of exposure Skin contact Species Guinea pig

OECD Test Guideline 406 Method Result Not a skin sensitizer.

GLP yes

Germ cell mutagenicity

Not classified based on available information.

Components:

tris(methylphenyl) phosphate:

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: no

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: Chromosome aberration test in vitro

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Result: negative

GLP: no

Test Type: Micronucleus test Genotoxicity in vivo

> Species: Mouse (female) Cell type: In red blood cells Application Route: Oral

Result: negative

GLP: no

Test Type: sister chromatid exchange assay Species: Chinese hamster (male and female)

Cell type: Bone marrow Application Route: Oral

Result: negative

GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Genotoxicity in vitro Test Type: Micronucleus test

Test system: Human lymphocytes

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Test Type: Ames test

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Test results on an analogous product

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

Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Mouse (male) Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

GLP: no

Remarks: Test results on an analogous product

Carcinogenicity

Not classified based on available information.

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.

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OSHANo 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 or the unborn child.

Components:

tris(methylphenyl) phosphate:

Effects on fertility : Species: Mouse, male and female

Application Route: Oral

Dose: 62,5 - 124 - 250 milligram per kilogram

General Toxicity Parent: LOAEL: 62.5 mg/kg body weight General Toxicity F1: LOAEL: 62.5 mg/kg body weight

Target Organs: Testes

GLP: no

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat, female Application Route: Oral

Dose: 20 - 100 - 400 - 750 milligram per kilogram

Duration of Single Treatment: 28 d

General Toxicity Maternal: NOEL: 20 mg/kg body weight Developmental Toxicity: LOAEL: 20 mg/kg body weight

Method: OPPTS 870.3700

GLP: yes

Reproductive toxicity - As-

sessment

Suspected of damaging fertility. (Causing atrophy of the tes-

tes), Suspected of damaging the unborn child.

Routes of exposure, oral

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Rat, male and female

Application Route: Oral

Dose: 25-75-225 milligram per kilogram

General Toxicity Parent: NOAEL: 25 mg/kg bw/day

Fertility: NOEL: 225 mg/kg bw/day Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rabbit, female

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Application Route: Oral

Dose: 10-30-100 milligram per kilogram

General Toxicity Maternal: NOAEL: 30 mg/kg bw/day

Teratogenicity: NOAEL: 100 mg/kg bw/day Developmental Toxicity: NOEL: 30 mg/kg bw/day

Method: OECD Test Guideline 414

Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

GLP: yes

Reproductive toxicity - As-

sessment

: 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:

tris(methylphenyl) phosphate:

Species : Rat, male and female

LOAEL : 50 mg/kg Application Route : Oral Exposure time : 91 d

Number of exposures : 5 days/week

Dose : 50 - 100 - 200 - 400 - 800 mg/kg bw/day

GLP : yes

Remarks : Subchronic toxicity

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rat, male and female

NOAEL : 25 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily

Dose : 25-75-225 mg/kg bw/d Method : OECD Test Guideline 422

GLP : yes

Remarks : Subacute toxicity

Aspiration toxicity

Not classified based on available information.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

tris(methylphenyl) phosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.6 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no

GLP: no

Remarks: Fresh water nominal concentration

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.146 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (green algae)): > 2.5

mg/l

End point: Growth rate Exposure time: 72 h Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water nominal concentration water extractable fraction

NOEC (Pseudokirchneriella subcapitata (green algae)): > 2.5

mg/l

End point: Growth rate Exposure time: 72 h Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water nominal concentration water extractable fraction

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Toxicity to fish (Chronic tox-

icity)

: NOEC (Jordanella floridae (flagfish)): 0.01 mg/l

Exposure time: 28 d Analytical monitoring: yes

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.1 mg/l

Exposure time: 21 d Analytical monitoring: yes

GLP: no

Remarks: Fresh water

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: Fresh water nominal concentration

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: no

Remarks: Fresh water nominal concentration

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 51 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water nominal concentration

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

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Remarks: Fresh water nominal concentration

NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water nominal concentration

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EL10 (Daphnia magna (Water flea)): 1.69 mg/l

End point: Reproduction Exposure time: 21 Days Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: Fresh water nominal concentration water extractable fraction

Toxicity to microorganisms

EC50 (activated sludge): > 100 mg/l End point: Respiration inhibition

Exposure time: 3 h
Test Type: static test
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: no

Remarks: Fresh water nominal concentration

Persistence and degradability

Product:

Biodegradability : Result: No data available

Components:

tris(methylphenyl) phosphate:

Biodegradability : aerobic

Inoculum: activated sludge, adapted

Concentration: 30 mg/l

Result: Inherently biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 302C GLP: No information available.

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Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20.1 mg/l

Result: Not readily biodegradable.

Biodegradation: 1 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

tris(methylphenyl) phosphate:

Partition coefficient: n- : log Pow: 5.93 (77 °F / 25 °C)

octanol/water Method: measured

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n- : log Pow: 6.66 (73 °F / 23 °C)

octanol/water pH: 6.67

Method: OECD Test Guideline 123

GLP: yes

Remarks: Based on data from similar materials

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization

tion 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 classi-

fied as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized

wherever possible.

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This material and its container must be disposed of in a safe

Empty containers retain product residue; observe all precau-

tions 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

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Environmentally hazardous substance, liquid, n.o.s. Proper shipping name

(TRICRESYL PHOSPHATES)

Class 9 Packing group Ш 9

Labels



964:450.00 L

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

964:450.00 L

Environmentally hazardous yes

IMDG-Code

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(TRICRESYL PHOSPHATES)

Class 9 Packing group Ш Labels 9



EmS Code F-A, S-F

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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.

(TRICRESYL PHOSPHATES)

Class 9 Packing group Ш 9

Labels



ERG Code 171 Marine pollutant yes



Hazard and Handling Notes.

Environmentally hazardous substance., Keep separated from foodstuffs

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

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

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 : 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

aniline 62-53-3 < 0.01 1-naphthylamine 134-32-7 < 0.001

Pennsylvania Right To Know

Pentaerythritol tetraesters with mixed fatty acids ACCN 18585-0 > 1

California Prop. 65

WARNING: This product can expose you to chemicals including aniline, 1-naphthylamine, 2-naphthylamine, which is/are known to the State of California to cause cancer, and toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

TSCA inventory

TSCA : All substances listed as active on the 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

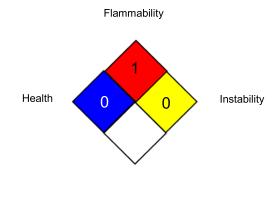
Further information

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NFPA 704:



Special hazard

HMIS® IV:



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

AIIC - Australian Inventory of Industrial Chemicals; 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 Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory;

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TECI - Thailand Existing Chemicals 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 : 01/20/2023

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.