

DURAD® 125 AVIATION

Version: 1.0 Revision Date: 03/31/2015 Print Date: 01/10/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DURAD® 125 AVIATION

Product Use Description: Fire retardant

Lubricant Additive

Company: Chemtura Corporation

199 Benson Road Middlebury, CT

06749

United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by <u>Product Safety Department</u>

(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Fire retardant, Lubricant, Additive

Restrictions on use : Industrial use, Professional use, Consumer use

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid	
Colour	colourless	
Odour	odourless	

GHS Classification

Reproductive toxicity : Category 2
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

GHS Label element

SAP 6.0 SDS 2012-2 NA GHS 1/10 SDS Number: 400000002477



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Signal word : Warning

Hazard pictograms





Hazard statements : H361 Suspected of damaging fertility or the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Self-ignitable : No data available

Carcinogenicity:

IARC No component 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 identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
tris(methylphenyl) phosphate	1330-78-5	>= 90 - <= 100 %



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SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.

Obtain medical attention.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and water.

Call a physician if irritation develops or persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed : If conscious, make the victim drink the following:

Drink 1 or 2 glasses of water. Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

Notes to physician

: Symptoms may be delayed. toxic effects for reproduction

: The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during

firefighting

: Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Should not be released into the environment.

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Methods and materials for containment and cleaning up

: Remove all sources of ignition. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Use only with adequate ventilation.

Keep away from heat and sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Avoid formation of aerosol.

Do not breathe vapours or spray mist.

Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep away from flames and sparks.

Materials to avoid : None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : Use local ventilation to keep levels below established

threshold values.

Avoid formation of dust and aerosols.

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. In case of inadequate ventilation wear respiratory protection.

Personal protective equipment

Respiratory protection : Wear a NIOSH/MSHA approved organic cartridge respirator if

misting or vapor occurs, or there is potential for airborne

exposures to exceed established threshold values.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever

workplace conditions warrant a respirator's use.

Wear a NIOSH/MSHA approved self-contained breathing

apparatus in emergency situations.

Hand protection

Remarks : butyl-rubber Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : impervious clothing

Hygiene measures : Wash thoroughly after handling.

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Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colourless
Odor : odourless

Odour Threshold : No data available pH : No data available

Freezing point : < -40 °C

Boiling point/boiling range : 241 - 255 °C

Evaporation rate : No data available

Flash point : 225 °C

Method: ASTM D 93

Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : 2.8 hPa (20 °C)

3.7 hPa (25 °C)

Relative vapour density : No data available Relative density : 1.16 - 1.18 (20 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: Pow: 5.93

Auto-ignition temperature : 607 °CAuto-flammability

Thermal decomposition : > 300 °C

Viscosity

Viscosity, dynamic : 70 mPa.s (25 °C)

Viscosity, kinematic : No data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : None known.

Hazardous decomposition

products

Carbon oxides

Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : LD50: > 5,001 mg/kg

Species: Rat

Acute inhalation toxicity

(Product)

: LC50: > 5.2 mg/l Exposure time: 4 h

Species: Rat

Acute dermal toxicity

(Product)

: LD50: > 10,000 mg/kg

Species: Rabbit

Skin irritation (Product) : Species: Rabbit

Result: No skin irritation Method: Draize Test Exposure time: 24 h

Eye irritation (Product) : Species: Rabbit

Result: No eye irritation

Sensitisation (Product) : Result: Does not cause skin sensitisation.

Aspiration toxicity (Product) : No aspiration toxicity classification



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CMR effects

tris(methylphenyl) phosphate

(Component)

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

Mutagenicity: In vitro tests did not show mutagenic effects

Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: Suspected of damaging fertility or the unborn

child.

Further information (Product) : Acute Health Hazard

Chronic Health Hazard

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

: LC50: 0.75 mg/l Toxicity to fish (Product)

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

(Product) : LC50: > 100 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

(Product) : LC50: 0.6 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : EC50: 0.146 mg/l

aquatic invertebrates

(Product)

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: OECD Test Guideline 202

(Product) : EC50: 0.27 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to bacteria

tris(methylphenyl) phosphate

(Component)

: EC50: > 100 mg/l Exposure time: 3 h

> Species: activated sludge Respiration inhibition

Elimination information (persistence and degradability)

Bioaccumulation (Product) Remarks:

No data available

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Mobility (Product) : Remarks:

No data available

Biodegradability (Product) : Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

24 %

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

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

Additional ecological : Very toxic to aquatic organisms, may cause long-term adverse information (Product) effects in the aquatic environment.

ct) effects in the aquatic environment.

Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.

The product should not be allowed to enter drains, water

courses or the soil.

In accordance with local and national regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3082

Description of the goods : Environmentally hazardous substances, liquid, n.o.s.

(tris(methylphenyl) phosphate)

Class : 9
Packing group : III
Environmentally hazardous : yes

tris(methylphenyl) phosphate

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IATA

UN number : 3082

Description of the goods : Environmentally hazardous substance, liquid, n.o.s.

(tris(methylphenyl) phosphate)

Class : 9
Packing group : III
Environmentally hazardous : no

IMDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(tris(methylphenyl) phosphate)

Class : 9
Packing group : III
EmS Number 1 : F-A
EmS Number 2 : S-F
Marine pollutant : yes

tris(methylphenyl) phosphate

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

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

SARA304 Reportable Quantity

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

SARA 311/312 Hazards : Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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.

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

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

US.TSCA On TSCA Inventory

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

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SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

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

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

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