



Material Safety Data Sheet

DURAD 620B

Version: 1.1

Revision Date: 08/02/2011

Print Date: 09/04/2013

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *DURAD 620B*

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: 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: Product Safety Department
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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form: liquid Colour: clear colourless Odour: odourless

Hazard Summary : Based on analogy with similar materials, harmful effects are not expected.
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Primary Routes of Entry : Inhalation
Ingestion
Skin contact

Aggravated Medical Condition : None reported.

Inhalation : Not expected to be a hazard in normal industrial use.

Skin : Not expected to be a hazard in normal industrial use.

Eyes : Not expected to be a hazard in normal industrial use.

Ingestion : Not expected to be a hazard in normal industrial use.



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Chronic Exposure : None known.
Epidemiology studies completed in 1977 and 1985 of current and former workers at a production facility where natural and synthetic triaryl phosphate esters are manufactured have not demonstrated any unusual pattern of mortality or disease.

Symptoms of Overexposure : None known.

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.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
Phenol, isobutylated, phosphate [Triphenyl phosphate $\geq 0.25 \leq 25\%$] 68937-40-6	$\leq 100\%$

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Remove to fresh air.
Get medical attention.

Skin contact : Wash skin thoroughly with soap and water for at least 15 minutes.
If skin irritation occurs: Get medical advice/ attention.

Eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Get medical attention.

Ingestion : If conscious, make the victim drink the following:
Drink 1 or 2 glasses of water.
Get medical attention immediately.

Notes to physician

Symptoms : None known.

Treatment : For specialist advice physicians should contact the Poisons Information Service.



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SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : 489 °F (254 °C)
Method: Cleveland open cup ASTM D 92

Ignition temperature : 896 °F (480 °C)
Remarks: Auto-flammability

Lower explosion limit : Remarks: no data available

Upper explosion limit : Remarks: no data available

Fire fighting

Suitable extinguishing media : Dry chemical
Foam
Carbon dioxide (CO₂)
Water mist

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Burning produces noxious and toxic fumes.
Thermal decomposition can lead to release of irritating gases and vapours.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid release to the environment.
insoluble

Methods for containment / Methods for cleaning up : Soak up with oil absorbent material.
Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with skin, eyes and clothing.
Use personal protective equipment as required.
Do not breathe vapours or spray mist.



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Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Keep container tightly closed.
Protect from contamination.

Other data : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

We are not aware of any national exposure limit.

Engineering measures

Engineering measures : Local ventilation is needed in the presence of airborne mists.
Use local ventilation to keep levels below established threshold values.
Adequate general ventilation is recommended when handling to control airborne levels.
Use mechanical ventilation for general area control.

Personal protective equipment

Eye protection : Safety goggles

Hand protection : Impervious gloves

Skin and body protection : For personal hygiene purposes, use adequate clothing to prevent skin contact.

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.

Hygiene measures : Wash thoroughly after handling.
Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : clear



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colourless

Odour : odourless

Safety data

Flash point : 489 °F (254 °C)
Method: Cleveland open cup ASTM D 92

Ignition temperature : 896 °F (480 °C)
Remarks: Auto-flammability

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

Melting point/range : 25 °F (-4 °C)

Boiling point/boiling range : > 572 °F (300 °C)

Vapour pressure : < 0.044 hPa (4.400 mmHg)
at 302 °F (150 °C)

Specific Gravity : 1.124 at 20 °C

Water solubility : Note: insoluble

Viscosity, dynamic : 105 mPa.s
at 104 °F (40 °C)

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Exposure to moisture.
Contamination

Materials to avoid : Remarks: None known.

Hazardous decomposition products : Note: Possible decomposition products in case of hydrolysis are:
Phenol
Oxides of phosphorus
Carbon oxides
Other hazardous decomposition products may be formed.

Thermal decomposition : >300 °C

Hazardous reactions : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 5,000 mg/kg
Species: rat



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Acute inhalation toxicity : LC50: > 0.4 mg/l
Exposure time: 6 h
Species: rat

Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: rabbit

Skin irritation : Result: No skin irritation

Eye irritation : Result: No eye irritation

Sensitisation : Remarks: Not classified due to lack of data.

Aspiration toxicity : No aspiration toxicity classification

Toxicology Assessment

CMR effects : Carcinogenicity:
Not classified due to lack of data.
Mutagenicity:
Did not show mutagenic or teratogenic effects in animal experiments.
Reproductive toxicity:
Animal testing did not show any effects on fertility.

Further information : The toxicological data has been taken from products of similar composition.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish :
Remarks:
Information given is based on data obtained from similar substances.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
no data available

Mobility : Remarks:
no data available



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Biodegradability : Result: Not readily biodegradable.
Remarks:
Information given is based on data obtained from similar substances.

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Additional ecological information : Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of wastes in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3082
Description of the goods : Environmentally hazardous substances, liquid, n.o.s.
(Phenol, isobutyleneated, phosphate [Triphenyl phosphate $\geq 0.25 \leq 25\%$])
Class : 9
Packing group : III
ERG Code : 171

IATA

UN number : 3082
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.
(Phenol, isobutyleneated, phosphate [Triphenyl phosphate $\geq 0.25 \leq 25\%$])
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Phenol, isobutyleneated, phosphate [Triphenyl phosphate $\geq 0.25 \leq 25\%$])
Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A



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EmS Number 2 : S-F

Marine pollutant : yes
Phenol, isobutylated, phosphate [Triphenyl phosphate $\geq 0.25 \leq 25\%$]

Environmentally hazardous : yes
Phenol, isobutylated, phosphate [Triphenyl phosphate $\geq 0.25 \leq 25\%$]

SECTION 15. REGULATORY INFORMATION

SARA 302 Reportable Quantity :

Pennsylvania Right To Know Components : NJTS# 136411-5528P Proprietary additives OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z. ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances NFPA325m national fire protection association "fire hazard properties of flammable liquids, gasses, volatile solids" substances (NFPA 325 m).

California Prop. 65 Components : 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

AICS

On the inventory, or in compliance with the inventory

DSL

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

KECI

On the inventory, or in compliance with the inventory



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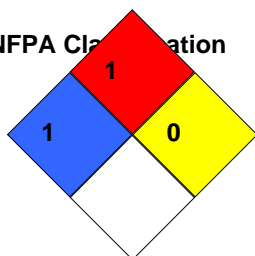
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
CH INV	The formulation contains substances listed on the Swiss Inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 1
Flammability: 1
Reactivity: 0
PPI: Ask supervisor or safety specialist for handling instructions

NFPA Classification



: Health hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+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.