

DURAD® 220B

Version: 1.2 Revision Date: 05/24/2016 Print Date: 09/30/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DURAD® 220B

Product Use Description: Lubricants and lubricant additives

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 Product Safety Department

(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricants and lubricant additives

Restrictions on use : Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid	
Colour	clear	
Odour	odourless	

GHS Classification

Chronic aquatic toxicity : Category 2

GHS Label element

Hazard pictograms





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Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

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 (%)
Phenol, isobutylenated, phosphate [Triphenyl phosphate ≥ 2.5 < 25%]	68937-40-6	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.

Get medical attention.

In case of skin contact : Wash skin thoroughly with soap and water for at least 15

minutes.

If skin irritation occurs: Get medical advice/ attention.

In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at

least 15 minutes. Get medical attention.

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

Drink 1 or 2 glasses of water. Get medical attention immediately.

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Most important symptoms and effects, both acute and

Notes to physician

delayed

played

: For specialist advice physicians should contact the Poisons

Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam

Dry chemical

: None known.

Carbon dioxide (CO2)

Water mist

Specific hazards during

firefighting

: Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing

methods

: Prevent fire extinguishing water from contaminating surface

water or the ground water system.

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 : Do not flush into surface water or sanitary sewer system.

Avoid release to the environment.

Methods and materials for containment and cleaning up

: Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and

transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

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

practice.

Avoid contact with skin, eyes and clothing. Use personal protective equipment as required.

Use with adequate ventilation.

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Do not breathe vapours or spray mist.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place.

Keep container tightly closed. Protect containers against damage. Protect from contamination.

Materials to avoid : None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No.	Form of exposure	Permissible concentration	Basis
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Engineering measures : Use local ventilation to keep levels below established

threshold values.

Local ventilation is needed in the presence of airborne mists. Adequate general ventilation is recommended when handling

to control airborne levels.

Use mechanical ventilation for general area control.

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 : Impervious butyl rubber gloves

Eye protection : Safety glasses with side-shields

or

Safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Wash thoroughly after handling.

Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Color : clear

Odor : odourless

Odour Threshold : No data available

pH : Not applicable

Freezing point : -20 °C

Boiling point/boiling range : > 300 °C (1,013.250164 hPa)

Evaporation rate : No data available

Flash point : > 220 °C

Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : 0.044 hPa (150 °C)

Relative vapour density : No data available

Relative density : 1.17 (20 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: log Pow: 4.84

No data available

Auto-ignition temperature : 560 °CAuto-flammability

Thermal decomposition : > 300 °C

Viscosity

Viscosity, dynamic : 28.8 - 35.2 mPa.s (40 °C)

Method: ASTM D 445

120 mPa.s (25 °C)

Viscosity, kinematic : No data available

No data available



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SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : No decomposition if stored normally.

Possibility of hazardous

reactions

: Will not occur.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

: Oxides of phosphorus Carbon dioxide (CO2)

Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : LD50: > 5,000 mg/kg

Species: Rat

Remarks: Information given is based on data obtained from similar

substances.

Acute inhalation toxicity

(Product)

: LC50: > 200 mg/l Exposure time: 1 h

Species: Rat

Remarks: Information given is based on data obtained from similar

substances.

Acute dermal toxicity

(Product)

: LD50: > 2,000 mg/kg

Species: Rat

Remarks: Information given is based on data obtained from similar

substances.

Skin irritation (Product) : Species: Rabbit

Result: No skin irritation

Remarks: Information given is based on data obtained from similar

substances.

Eye irritation (Product) : Species: Rabbit

Result: No eye irritation

Remarks: Information given is based on data obtained from similar

substances.

Aspiration toxicity (Product) : No aspiration toxicity classification

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CMR effects

Phenol, isobutylenated, phosphate [Triphenyl phosphate ≥ 2.5 < 25%] (Component)

: Reproductive toxicity: Based on available data, the classification criteria are not met., No effects on fertility and early embryonic development

were detected.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : LC50: 3.4 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Remarks:

Information given is based on data obtained from similar substances.

(Product) : LC50: 42.3 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Remarks:

Information given is based on data obtained from similar substances.

Toxicity to daphnia and other

aquatic invertebrates

(Product)

: EC50: 3.9 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Remarks:

Information given is based on data obtained from similar substances.

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 3,976 - 4,183

Remarks:

Information given is based on data obtained from similar

substances.

Mobility (Product) : Remarks:

No data available

Biodegradability

Phenol, isobutylenated, phosphate [Triphenyl

phosphate ≥ 2.5 < 25%]

(Component)

: Remarks:

Readily biodegradable

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Ecotoxicology Assessment

Results of PBT assessment (Product)

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

Additional ecological : Avoid release to the environment.

information (Product)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Do not dispose of waste into sewer.

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 Regulation

IATA-DGR

UN/ID No. : UN 3082

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

(Phenol, isobutylenated, phosphate [Triphenyl phosphate ≥

2.5 < 25%])

Class : 9 Packing group : III

Labels : Miscellaneous

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Phenol, isobutylenated, phosphate [Triphenyl phosphate ≥

2.5 < 25%])

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.

National Regulations

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UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,

N.O.S.

(Phenol, isobutylenated, phosphate [Triphenyl phosphate ≥

2.5 < 25%

Class : 9 Packing group : III

Labels : CLASS 9 ERG Code : 171

Marine pollutant : yes(Phenol, isobutylenated, phosphate [Triphenyl phosphate

 $\geq 2.5 < 25\%$

SECTION 15. REGULATORY INFORMATION

TSCA list : US. Toxic Substances Control Act (TSCA) Section 12(b) Export

Notification (40 CFR 707, Subpt D): Not relevant

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 : No SARA Hazards

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 On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCSOn the inventory, or in compliance with the inventoryKECIOn the inventory, or in compliance with the inventoryPICCSOn the inventory, or in compliance with the inventoryIECSCOn the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

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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.