

DURAD® 220

Version: 1.0 Revision Date: 03/31/2015 Print Date: 04/22/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DURAD® 220

Product Use Description: This substance is restricted to the following uses:

Fire retardant

Additive

Adhesives and/or sealants

Paint

Heat transfer agents

Photosensitive agents and other photo-chemicals

Metalworking-fluid preservatives Lubricants and lubricant additives

Surface treatment

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 : This substance is restricted to the following uses:, Fire

retardant, Additive, Adhesives and/or sealants, Paint, Heat transfer agents, Photosensitive agents and other photochemicals, Metalworking-fluid preservatives, Lubricants and

lubricant additives, Surface treatment

Restrictions on use : To be used only where there is a recognised need. Do not

exceed the appropriate dose rates.

SECTION 2. HAZARDS IDENTIFICATION

Form	oily liquid	
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SAP 6.0 SDS 2012-2 NA GHS 1/10 SDS Number: 400000004911



DURAD® 220 Version: 1.0 Revision Date: 03/31/2015 Print Date: 04/22/2015

Colour	colourless
Odour	odourless

GHS Classification

Reproductive toxicity (Oral) Specific target organ toxicity -

repeated exposure

Chronic aquatic toxicity

: Category 2: Category 2

. Category 2

: Category 2

GHS Label element

Signal word : Warning

Hazard pictograms





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

swallowed.

H373 May cause damage to organs through prolonged or

repeated exposure.

H411 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.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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.

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

SAP 6.0 SDS 2012-2 NA GHS 2/10 SDS Number: 400000004911



 DURAD® 220

 Version: 1.0
 Revision Date: 03/31/2015
 Print Date: 04/22/2015

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.

Environmental Effects

Environmental Effects : Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic

environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5%]	68937-41-7	>= 90 - <= 100 %

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.

Give oxygen or artificial respiration if needed.

Obtain medical attention.

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

Wash off with warm water and soap.

If skin irritation occurs: Get medical advice/ attention.

Wash contaminated clothing before re-use.

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

If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.

If conscious, make the victim drink the following:

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

Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : All conventional media are suitable.

Specific hazards during

firefighting

: Burning produces noxious and toxic fumes.

Specific extinguishing : Cool containers/tanks with water spray.

SAP 6.0 SDS 2012-2 NA GHS 3 / 10 SDS Number: 400000004911



DURAD® 220

Revision Date: 03/31/2015 Version: 1.0 Print Date: 04/22/2015

methods Prevent fire extinguishing water from contaminating surface

water or the ground water system.

for firefighters

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

Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Ensure adequate ventilation.

Wear suitable protective clothing, gloves and eye/face

protection.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable

container for disposal. Ventilate the area.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling Handle and open container with care.

> Heat only in areas with appropriate exhaust ventilation. Avoid inhalation, ingestion and contact with skin and eyes.

Do not breathe vapours or spray mist. Wear personal protective equipment. Keep container closed when not in use.

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

ventilated place.

Keep only in the original container.

: None known. Materials to avoid

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : Use mechanical ventilation for general area control.

Ensure that extracted air cannot be returned to the workplace

through the ventilation system.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

4/10 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000004911



DURAD® 220

Version: 1.0 Revision Date: 03/31/2015 Print Date: 04/22/2015

In the case of vapour formation use a respirator with an

approved filter.

Respirator with a vapour filter (EN 141)

Eye protection : Safety goggles

or

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Long sleeved clothing

impervious clothing

To protect against splashes from pouring:

Chemical resistant apron Rubber or plastic boots

Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. When using do not eat, drink or smoke.

Wash thoroughly after handling. Keep working clothes separately.

Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : oily liquid

Color : colourless
Odor : odourless

Odour Threshold : No data available pH : No data available

Freezing point : < -40 °C

Boiling point/boiling range : 220 - 270 °C (5.332 hPa)

Evaporation rate : No data available

Flash point : 257 °C

Method: ASTM D 93

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 0.035 hPa (150 °C)

Relative vapour density : > 1

SAP 6.0 SDS 2012-2 NA GHS 5/10 SDS Number: 400000004911



DURAD® 220

Version: 1.0 Revision Date: 03/31/2015 Print Date: 04/22/2015

Relative density : 1.127 - 1.142 (20 °C)

Solubility(ies)

Water solubility : insoluble Solubility in other solvents : soluble

Solvent: Organic solvents

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Viscosity

Viscosity, dynamic : No data available
Viscosity, kinematic : No data available

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

: 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

Phenol, isopropylated, phosphate (3:1) [Triphenyl

phosphate > 5%] (Component)

: LD50: > 5,000 mg/kg

Species: Rat

Acute inhalation toxicity

Phenol, isopropylated, phosphate (3:1) [Triphenyl

phosphate > 5%] (Component)

: LC50: > 200 mg/l Species: Rat

SAP 6.0 SDS 2012-2 NA GHS 6/10 SDS Number: 400000004911



DURAD® 220

Version: 1.0 Revision Date: 03/31/2015 Print Date: 04/22/2015

Acute dermal toxicity

Phenol, isopropylated, phosphate (3:1) [Triphenyl

phosphate > 5%] (Component)

: LD50: > 10,000 mg/kg

Species: Rabbit

Skin irritation (Product) : Result: No skin irritation

Eye irritation (Product) : Result: No eye irritation

Aspiration toxicity (Product) : No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:

Information given is based on data obtained from similar substances.

Toxicity to daphnia and other

aquatic invertebrates

(Product)

: Remarks:

Information given is based on data obtained from similar substances.

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:

No data available

Mobility (Product) : Remarks:

No data available

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

product is not readily biodegradable.

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

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

SECTION 13. DISPOSAL CONSIDERATIONS



DURAD® 220

Version: 1.0 Revision Date: 03/31/2015 Print Date: 04/22/2015

Disposal methods

Waste from residues : Dispose of waste material in compliance with all federal, state,

and local regulations.

Dispose of wastes in an approved waste disposal facility. Do not contaminate ponds, waterways or ditches with

chemical or used container.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3082

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

(Phenol, isopropylated phosphate (3:1) [Triphenyl phosphate

> 5%])

Class : 9
Packing group : III
Environmentally hazardous : yes

Phenol, isopropylated phosphate (3:1) [Triphenyl phosphate >

5%]

IATA

UN number : 3082

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

(Phenol, isopropylated phosphate (3:1) [Triphenyl phosphate

> 5%])

Class : 9
Packing group : III
Environmentally hazardous : no

IMDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Phenol, isopropylated phosphate (3:1) [Triphenyl phosphate

> 5%])

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

Phenol, isopropylated phosphate (3:1) [Triphenyl phosphate

> 5%]

SAP 6.0 SDS 2012-2 NA GHS 8/10 SDS Number: 400000004911



	DURAD® 220	
Version: 1.0	Revision Date: 03/31/2015	Print Date: 04/22/2015

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	•	Calculated product RQ
		(lbs)	(lbs)
phenol	108-95-2	1000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
phenol	108-95-2	1000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

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

KECI
On the inventory, or in compliance with the inventory

NZIOC
On the inventory, or in compliance with the inventory

NZIOC
On the inventory, or in compliance with the inventory

NZIOC
On the inventory, or in compliance with the inventory

NZIOC
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NZIOC
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144





DURAD® 220			
Version: 1.0	Revision Date: 03/31/2015	Print Date: 04/22/2015	

	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.

SAP 6.0 SDS 2012-2 NA GHS 10 / 10 SDS Number: 400000004911