



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

***DURAD 150B***

Version 4.1

Revision Date 11.08.2011

Print Date 20.05.2015

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : DURAD 150B

Substance name : Phenol, isobutyleneated, phosphate (3:1)[Triphenyl phosphate > 25%]

Substance No. : 273-065-8

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : Lubricant, Additive

Recommended restrictions on use : For professional users only.

**1.3 Details of the supplier of the safety data sheet**

Company: Chemtura Manufacturing UK Limited  
Tenax Road, Trafford Park  
Manchester  
United Kingdom  
M17 1WT

Customer Service: +44 161 875 3800

Prepared by: Product Safety Department  
(US) +1 866-430-2775

Further information for the safety data sheet :  
MSDSRequest@chemtura.com

**1.4 Emergency telephone number**

Emergency telephone number: +44 (0)208 762 8322  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**



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Acute aquatic toxicity, Category 1  
Chronic aquatic toxicity, Category 1

H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Classification (67/548/EEC, 1999/45/EC)**

Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

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.

Hazardous components which must be listed on the label:

- 68937-40-6 Phenol, isobutyleneated, phosphate (3:1) [Triphenyl phosphate > 25%]

**2.3 Other hazards**

Do not handle until all safety precautions have been read and understood.

**3. Composition/information on ingredients**

**3.1 Substances**

Chemical nature : Multi constituent substance

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
Phenol, isobutyleneated, phosphate (3:1)	68937-40-6	<= 100



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[Triphenyl phosphate > 25%]

273-065-8

**4. First aid measures**

**4.1 Description of first aid measures**

- If inhaled : Remove to fresh air.  
Get medical attention.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
If skin irritation occurs: Get medical advice/ attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Do not induce vomiting. If conscious, give 2 glasses of water.  
Get immediate medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

**4.3 Indication of any immediate medical attention and special treatment needed**

**5. Fire-fighting measures**

**5.1 Extinguishing media**

- Suitable extinguishing media : Water mist  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Foam

**5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire fighting : Burning produces irritant fumes.

**5.3 Advice for firefighters**

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Wear suitable protective clothing, gloves and eye/face protection.
- Further information : Use water spray to cool unopened containers.

**6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**



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Personal precautions : Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Environmental precautions : Avoid release to the environment.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Absorb on inert material such as sand, earth, vermiculite.  
Shovel into suitable container for disposal.  
Do not flush into surface water or sanitary sewer system.

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

**7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapours or spray mist.  
Avoid repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

**7.3 Specific end uses**

Specific use(s) : Raw material for industry

**8. Exposure controls/personal protection**

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls**

**Engineering measures**

Use with adequate ventilation.  
Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protective equipment**



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- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Eye protection : Safety goggles
- Skin and body protection : Wear as appropriate:  
Lab coat  
impervious clothing

**Environmental exposure controls**

- General advice : Avoid release to the environment.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : colourless
- Odour : odourless
- Odour Threshold : No information available.
- Flash point : 243 °C
- Method: ASTM D 93
- Ignition temperature : 535 °C
- Lower explosion limit : No information available.
- Upper explosion limit : No information available.
- Flammability (solid, gas) : No information available.
- Autoignition temperature : No information available.
- pH : No information available.
- Melting point/range : Note: no data available



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Vapour pressure : <1 hPa

Density : 1,15 - 1,17 g/cm<sup>3</sup>

Water solubility :  
insoluble

Partition coefficient: n-octanol/water : No information available.

Solubility in other solvents : No information available.

Relative vapour density : No information available.

Evaporation rate : No information available.

**9.2 Other information**

Oxidising potential : Note: No information available.

**10. Stability and reactivity**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : None known.

**10.6 Hazardous decomposition products**

Hazardous decomposition products : Oxides of phosphorus  
Carbon oxides

**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Acute oral toxicity : LD50 Oral: > 5.000 mg/kg



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Species: rat

Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity

: LC50: > 200 mg/l

Exposure time: 1 h

Species: rat

Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity

: LD50 Dermal: > 2.000 mg/kg

Species: rat

Remarks: Information given is based on data obtained from similar substances.

**Skin corrosion/irritation**

Skin irritation

: Remarks: Not classified due to lack of data.

**Serious eye damage/eye irritation**

Eye irritation

: Remarks: Not classified due to lack of data.

**Respiratory or skin sensitization**

Sensitisation

: Remarks: Not classified due to lack of data.

**Mutagenicity Assessment**

Remarks

: Not classified due to lack of data.

**Carcinogenicity Assessment**

Remarks

: Not classified due to lack of data.

**Reproductive toxicity Assessment**

Remarks

: Not classified due to lack of data.

**Target Organ Systemic Toxicant - Single exposure**

: Remarks: Not classified due to lack of data.

**Target Organ Systemic Toxicant - Repeated exposure**

: Remarks: Not classified due to lack of data.

**Aspiration hazard**

Aspiration toxicity

: No aspiration toxicity classification



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**Toxicology Assessment**

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

**12. Ecological information**

**12.1 Toxicity**

Toxicity to fish : LC50: 0,8 mg/l  
Exposure time: 96 h

Species: Fish

Toxicity to fish  
Phenol, isobutyleneated,  
phosphate (3:1) [Triphenyl  
phosphate > 25%] : LC50: 0,8 mg/l  
Exposure time: 96 h

Species: Fish

Toxicity to daphnia and other  
aquatic invertebrates. : EC50: 0,202 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Toxicity to daphnia and other aquatic invertebrates.  
Phenol, isobutyleneated, : EC50: 0,202 mg/l  
phosphate (3:1) [Triphenyl  
phosphate > 25%] Exposure time: 48 h  
Species: Daphnia magna (Water flea)

Toxicity to fish (Chronic  
toxicity) : NOEC: 0,093 mg/l  
Exposure time: 90 d

Toxicity to fish (Chronic toxicity)  
Phenol, isobutyleneated, : NOEC: 0,093 mg/l  
phosphate (3:1) [Triphenyl  
phosphate > 25%] Exposure time: 90 d

Toxicity to daphnia and other  
aquatic invertebrates. : NOEC: 0,0399 mg/l  
Exposure time: 21 d  
(Chronic toxicity)

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity)  
Phenol, isobutyleneated, : NOEC: 0,0399 mg/l  
phosphate (3:1) [Triphenyl  
phosphate > 25%] Exposure time: 21 d





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**12.2 Persistence and degradability**

Biodegradability : Result: Readily biodegradable.

**12.3 Bioaccumulative potential**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1.850

Bioaccumulation  
Phenol, isobutylenated,  
phosphate (3:1) [Triphenyl  
phosphate > 25%] : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1.850

**12.4 Mobility in soil**

Mobility : Remarks:  
no data available

**12.5 Results of PBT and vPvB assessment**

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**12.6 Other adverse effects**

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

**13. Disposal considerations**

**13.1 Waste treatment methods**

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

**14. Transport information**

**ADR**

UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
(Phenol, isobutylenated, phosphate (3:1) [Triphenyl  
phosphate > 25%])



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Transport hazard class(es) : 9  
Packing group : III  
Classification Code : M6  
Hazard identification No : 90  
Labels : 9  
Tunnel restriction code : (E)  
Environmentally hazardous : yes

**IATA**

UN number : 3082  
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.  
(Phenol, isobutylenated, phosphate (3:1) [Triphenyl  
phosphate > 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, isobutylenated, phosphate (3:1) [Triphenyl  
phosphate > 25%])  
Class : 9  
Packing group : III  
Labels : 9  
EmS Number 1 : F-A  
EmS Number 2 : S-F

Marine pollutant : yes  
Phenol, isobutylenated, phosphate (3:1) [Triphenyl  
phosphate > 25%]

**RID**

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S.  
(Phenol, isobutylenated, phosphate (3:1) [Triphenyl  
phosphate > 25%])



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Transport hazard class(es) : 9  
Packing group : III  
Classification Code : M6  
Hazard identification No : 90  
Labels : 9  
Environmentally hazardous : yes

**15. Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Candidate List of Substances : Neither banned nor restricted  
of Very High Concern for  
Authorisation

Major Accident Hazard : 96/82/EC Update: 2003  
Legislation Dangerous for the environment  
9a  
Quantity 1: 100 t  
Quantity 2: 200 t

Water contaminating class : WGK 2 water endangering  
(Germany) self classification

**Notification status**

US.TSCA : On TSCA Inventory  
DSL : On the inventory, or in compliance with the inventory  
AICS : On the inventory, or in compliance with the inventory  
NZIoC : Not 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  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory  
CH INV : On the inventory, or in compliance with the inventory

**15.2 Chemical Safety Assessment**

No information available.

**16. Other information**

Full text of R-phrases referred to under sections 2 and 3



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R50/53                      Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of H-Statements referred to under sections 2 and 3.**

H400                      Very toxic to aquatic life.  
H410                      Very toxic to aquatic life with long lasting effects.

**Further information**

**Carechem24 International Worldwide Coverage - Chemtura Corporation**

**Emergency Phone Number**

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670
<u>Asia Pacific:</u>	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285
	Vietnam	+65 3158 1255
	India	+65 3158 1198
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Bangladesh	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States / Canada	001866 928 0789
<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
	Mexico	+52 555 004 87 63

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