## **DURAD® 150B**



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#### **SECTION 1. IDENTIFICATION**

Product name : DURAD® 150B

Product code : 00000000058311152

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS

(412) 809-1000

lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Additive

Restrictions on use : Reserved for industrial and professional use.

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

Very toxic to aquatic life with long lasting effects.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

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Substance name : Reaction mass of p-t-butylphenyldiphenyl phosphate and

bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate

[TPP>25%]

## Components

No hazardous ingredients

#### **SECTION 4. FIRST AID MEASURES**

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.

Get medical attention if symptoms occur.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.

Do not induce vomiting unless directed to do by medical per-

sonnel.

Get medical attention if symptoms occur.

## Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

: No symptoms known or expected.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

Treat symptomatically.

# **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water mist

Carbon dioxide (CO2)

Dry chemical

Foam

Unsuitable extinguishing : High volume water jet

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media

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

Further information : Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment:

for fire-fighters

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

Wear suitable protective clothing, gloves and eye/face protec-

tion.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emergency procedures

No action shall be taken involving any personal risk or without

suitable training.

Put on appropriate personal protection equipment. Do not touch or walk through spilled material.

Evacuate unnecessary personnel.

Keep unnecessary and unprotected personnel from entering.

Prevent product from entering drains. **Environmental precautions** 

Prevent further leakage or spillage if safe to do so.

Methods and materials for

containment and cleaning up

Stop leak if safe to do so.

Move containers from spill area.

Wash spillages into an effluent treatment plant or proceed as

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or

groundwater or into the soil.

#### **SECTION 7. HANDLING AND STORAGE**

Remove contaminated clothing and protective equipment be-Advice on safe handling

fore entering eating areas.

Workers should wash hands and face before eating, drinking

and smoking.

Put on appropriate personal protection equipment.

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Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage : Store in accordance with local regulations.

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

materials (see Section 10) and food and drink. Keep containers sealed until ready for use.

Containers that have been opened must be carefully resealed

and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate container to avoid environmental contamina-

tion.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
triphenyl phosphate	115-86-6	TWA	3 mg/m3	ACGIH
		TWA	3 mg/m3	OSHA Z-1
triphenyl phosphate	115-86-6	TWA	3 mg/m3	ACGIH
		TWA	3 mg/m3	OSHA Z-1

## Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
triphenyl phosphate	115-86-6	TWA	3 mg/m3	ACGIH
		TWA	3 mg/m3	OSHA Z-1

**Engineering measures** : If user operations generate dust, fumes or mist, use ventila-

tion to keep exposure to airborne contaminants below the

exposure limit.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Hand protection

Material : Nitrile rubber

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Break through time : > 480 min

Glove thickness : 0.4 mm

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : These recommendations apply to the product as supplied.

Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

Hygiene measures : Wash hands, forearms and face thoroughly after handling

chemical products, before eating, smoking and using the

lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially

contaminated clothing.

Wash contaminated clothing before reusing.

Ensure that eyewash stations and safety showers are close

to the workstation location.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Physical state : liquid

Color : colorless

Odor : odorless

Odor Threshold : No data available

pH : No data available

Melting point/range : -6 °F / -21 °C

Boiling point/boiling range : No data available

No data available

Flash point :  $>= 390 \, ^{\circ}\text{F} / 199 \, ^{\circ}\text{C}$ 

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Method: Cleveland open cup

Evaporation rate : No data available

Self-ignition No data available

Burning number No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure < 1 hPa (302 °F / 150 °C)

Relative vapor density : No data available

Relative density : 1.1400 - 1.1800 (68 °F / 20 °C)

Method: No information available.

1.76 g/cm3 (77 °F / 25 °C) Density

Solubility(ies)

Water solubility : 3.2 mg/l (72 °F / 22 °C)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

log Pow: 4.68 (77 °F / 25 °C)

Ignition temperature : 995 °F / 535 °C

Method: ASTM E 659

Decomposition temperature : No data available

Self-Accelerating decomposi-

tion temperature (SADT)

No data available

Viscosity

Viscosity, dynamic : 28.8 - 35.2 mPa.s (104 °F / 40 °C)

Method: ASTM D 445

Viscosity, kinematic : 48.3 mm2/s (77 °F / 25 °C)

30.8 mm2/s (104 °F / 40 °C)

4.9 mm2/s (212 °F / 100 °C)

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Explosive properties : No data available

Oxidizing properties : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No specific test data related to reactivity available for this

product or its ingredients.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

Oxides of phosphorus

Carbon oxides

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Inhalation Eye contact Skin contact

#### **Acute toxicity**

Not classified based on available information.

# **Product:**

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

Remarks: Information given is based on data obtained from

similar substances.

Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

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## Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

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# Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.

# Germ cell mutagenicity

Not classified based on available information.

# Carcinogenicity

Not classified based on available information.

IARC No ingredient 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

on OSHA's list of regulated carcinogens.

No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

## Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

# STOT-repeated exposure

Not classified based on available information.

## **Aspiration toxicity**

Not classified based on available information.

#### **Product:**

No aspiration toxicity classification

#### **Further information**

#### **Product:**

Remarks : The toxicological data has been taken from products of similar

composition.

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## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Fish): 0.8 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.202 mg/l

Exposure time: 48 h

Toxicity to fish (Chronic tox- : NOEC: 0.093 mg/l

icity)

Exposure time: 90 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.0399 mg/l Exposure time: 21 d

## Persistence and degradability

**Product:** 

Biodegradability : Result: Readily biodegradable.

## Bioaccumulative potential

**Product:** 

Bioaccumulation Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 1,850

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

: Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Avoid release to the environment.

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

RCRA - Resource Conserva- : tion and Recovery Authoriza-

tion Act

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. Howev-

er, under RCRA, it is the responsibility of the product user to

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> determine at the time of disposal, whether a material containing the product or derived from the product should be classi-

fied as a hazardous waste. (40 CFR 261.20-24)

The generation of waste should be avoided or minimized Waste from residues

wherever possible.

This material and its container must be disposed of in a safe

Empty containers retain product residue; observe all precau-

tions for product.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

Waste disposal should be in accordance with existing federal,

state, provincial and/or local environmental controls.

#### **SECTION 14. TRANSPORT INFORMATION**

# **International Regulations**

**IATA-DGR** 

UN/ID No. UN 3082

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

(PHENOL, ISOBUTYLENATED, PHOSPHATE (TRIPHENYL

PHOSPHATE>25%))

Class Packing group Ш

Labels

Packing instruction (cargo

aircraft)

964: 450.00 L

Packing instruction (passen-

ger aircraft)

964: 450.00 L

Environmentally hazardous

yes

**IMDG-Code** 

UN 3082 **UN** number

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PHENOL, ISOBUTYLENATED, PHOSPHATE (TRIPHENYL

PHOSPHATE>25%))

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Class 9 Ш Packing group 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.

# **Domestic regulation**

**49 CFR** 

UN/ID/NA number : UN 3082

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

(PHENOL, ISOBUTYLENATED, PHOSPHATE (TRIPHENYL

PHOSPHATE>25%))

Class Packing group Ш 9

Labels



**ERG Code** 171 Marine pollutant yes



## Hazard and Handling Notes.

Environmentally hazardous substance. Keep separated from foodstuffs

# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

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Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

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.

#### **US State Regulations**

#### Massachusetts Right To Know

triphenyl phosphate	115-86-6	> 1
phenol	108-95-2	< 0.1

#### Pennsylvania Right To Know

tert-butylphenyl diphenyl phosphate	56803-37-3	> 1
triphenyl phosphate	115-86-6	> 1
di-tert-butylphenyl phenyl phosphate	65652-41-7	> 1
tris(p-tert-butylphenyl) phosphate	78-33-1	> 1
phenol	108-95-2	< 0.1

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### **TSCA** inventory

TSCA : All substances listed as active on the TSCA inventory, This

product is subject under TSCA 5(a) to Proposed Significant

New Use Restrictions (SNUR).

## **TSCA list**

The following substance(s) is/are subject to a Significant New Use Rule: triphenyl phosphate 115-86-6 Proposed Rule

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: triphenyl phosphate 115-86-6

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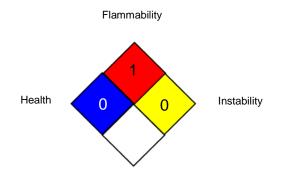


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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### HMIS® IV:

HEALTH	1	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety

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and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.