



DRYDENE RETRAPLEX DIAMOND BLUE EP 2

SAFETY DATA SHEET

Print date: 03/17/2020

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Revision Number: 2

1. IDENTIFICATION

Product identifier

Product Name: DRYDENE RETRAPLEX DIAMOND BLUE EP 2
Product code: D5030207, D5030209, D5030210, D5030211

Other means of identification

Synonyms No information available

Application

Recommended Use Grease
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:
Drydene Performance Products, Inc.
841 Nina Way, Unit 1
Warminster, PA 18974
E-MAIL: sds@drydene.com

Emergency telephone number:
* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2A

Label Elements

Emergency Overview

WARNING

Hazard Statements

Causes serious eye irritation

**Appearance** Blue**Physical State** Liquid**Odor** Typical**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified (HNOC)

None known

Other Information

Causes mild skin irritation. Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	68457-79-4	1 - 5%
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	68411-46-1	1 - 5%
Amines, C12-14-alkyl, C6-10-alkyl phosphates	68603-55-4	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice:	Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact:	Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person
Inhalation:	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Note to physician:
Medical condition
aggravated by exposure:

Treat symptomatically.
None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or `alcohol` foam. Do not use water with full jet.

Specific hazards: Do not allow material to contaminate ground water system.

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Explosion data Water mist may be used to cool closed containers

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Environmental precautions: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container.

Incompatible products: See Section 10, Materials to avoid

Safe storage temperature: 40 - 100 ° F

Shelf life: 730 days

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Residual oils, petroleum, solvent-refined	5 mg./m ³	5 mg./m.3	None known
Severely hydrotreated heavy naphthenic distillate	5 mg/m ³	5 mg/m ³	None known
Mineral Oil	5 mg/m ³	5mg/m ³	5mg/m ³
Calcium carbonate	None known	None known	10 mg/m ³ (TWA) 5 mg/m ³ (TWA)

Engineering measures: Ensure adequate ventilation

Personal Protective Equipment:

- General:** Provide easy access to eyewash/safety shower facilities.
- Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, respiratory protection may be required. Contact your site safety representative for proper respirator selection.
- Eye protection:** Wear safety glasses with side shields (or goggles)
- Hand protection:** Wear chemical-resistant gloves as appropriate for the risk of exposure. Contact your safety department for specific recommendations
- Skin and body protection:** Wear protective clothing and appropriate footwear necessary for the risk of exposure. Contact your health and safety department for specific recommendations
- Hygiene measures:** Handle in accordance with sound chemical hygiene practices. Wear the appropriate PPE. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke while using chemicals.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Blue
Odor	Typical
Odor Threshold	No information available
pH concentrate:	No information available
pH Dilution	No information available

Melting/freezing point	No information available
Boiling Point/Range	No information available
Flash Point	246 °C / 475 °F
Method	Open cup
Evaporation rate	No information available
Flammability Limits in Air	No information available
upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 °C)	0.89
Bulk Density (lb/gal, 15 C)	7.4
Water Solubility	Insoluble in water
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	220 mm ² /s @ 40 C
Dynamic viscosity	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: None known.

Materials to avoid: Strong oxidizing agents. Strong acids.

Hazardous decomposition products: None under normal use.

Hazardous Polymerization: No information available.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Information on likely routes of exposure

Inhalation May cause irritation of respiratory tract.

Eye Contact Irritating to eyes.

Skin Contact Irritating to skin.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	= 3600 mg/kg (Rat) Oral LD50 Rat 3600 mg/kg (Source: CHEMVIEW)	> 20000 mg/kg (Rabbit) Dermal LD50 Rabbit >20000 mg/kg (no deaths occurred, Source: CHEMVIEW)	-
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	> 5000 mg/kg (Rat) Oral LD50 Rat >5000 mg/kg (no deaths occurred, Source: EPA_HP)	-	-
Amines, C12-14-alkyl, C6-10-alkyl phosphates	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed	Not listed
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	Not listed	Not listed	Not listed
Amines, C12-14-alkyl, C6-10-alkyl phosphates	Not listed	Not listed	Not listed

Sensitization No information available.

Mutagenic effects: No information available.

Reproductive Toxicity No information available.

Developmental Toxicity No information available.

Teratogenic No information available.

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard Based on viscosity and/or components, not expected to be an aspiration hazard.

Additional information on toxicological effects

No information available

12. ECOLOGICAL INFORMATION

Chemical Name	Toxicity to Fish	Daphnia Magna (Water Flea)	Toxicity to Algae
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	25 - 50: 96 h Pimephales promelas mg/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 semi-static	4.0 - 6.0: 48 h Daphnia magna mg/L EC50	1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	100: 96 h Danio rerio mg/L LC50 static	No data	No data
Amines, C12-14-alkyl, C6-10-alkyl phosphates	No data	No data	No data

0.99% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Octanol/water partition coefficient
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	-
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	-
Amines, C12-14-alkyl, C6-10-alkyl phosphates	-

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused Waste disposal must be in accordance with appropriate Federal, State, and local

products: regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not regulated

TDG (CANADA):

Proper shipping name: Not regulated

IMDG/IMO:

Proper shipping name: Not regulated

IATA/ICAO:

Proper shipping name: Not regulated

15. REGULATORY INFORMATION

Federal Regulations

CERCLA/SARA Information:

SARA (311, 312) hazard class: See GHS Classification in Section 2 for hazard class information.

Chemical Name	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed	1.0 %
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	Not listed	Not listed	Not listed
Amines, C12-14-alkyl, C6-10-alkyl phosphates	Not listed	Not listed	Not listed

Clean Air and Clean Water Acts:

Chemical Name	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed	Listed	Not listed
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	Not listed	Not listed	Not listed	Not listed

Amines, C12-14-alkyl, C6-10-alkyl phosphates	Not listed	Not listed	Not listed	Not listed
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U.S. STATE REGULATIONS (RTK):

Chemical Name	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not Listed	Environmental hazard	100 lb	3012	Not Listed
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Amines, C12-14-alkyl, C6-10-alkyl phosphates	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

California Proposition 65 Status: May contain trace amounts of listed chemicals: Naphthalene

CANADIAN REGULATIONS:

Chemical Name	CEPA Schedule I	Challenge Substances
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed
n-Phenylbenzenamine, reaction w/ 2,4,4-trimethylpentene	Not listed	Not listed
Amines, C12-14-alkyl, C6-10-alkyl phosphates	Not listed	Not listed

INVENTORY STATUS:

United States TSCA Inventory: This product complies with TSCA

Canada DSL/NDSL Inventory List This product complies with DSL

16. OTHER INFORMATION

Sources of key data used to compile Material safety data sheets of the ingredients. the data sheet:

Prepared by: Safety, Health and Environmental Department

Revision Date: 03/17/2020

Reason for revision: New formulation.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied

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End of Safety Data Sheet