

Material Safety Data Sheet



Revision Date 07-Jun-2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code DL2650
Product name DURATION
Recommended Use Grounds Products
Supplier Drummond American Corporation
600 Corporate Woods Parkway
Vernon Hills, IL 60061
(847) 913-9313
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview		
	Irritant.	
Color Clear Blue-green	Odor Slight	Form Liquid

Aggravated Medical Conditions No information available

Principal Routes of Exposure Eyes. Skin.

Potential health effects

Eyes Irritation.
Skin Skin Irritation. Keep open wounds covered.
Inhalation No information available
Ingestion No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Tetrapotassium Pyrophosphate	7320-34-5	7-13
Urea	57-13-6	10-30
Water	7732-18-5	Varies
Urea-triazone solution	Mixture	40-70

4. FIRST AID MEASURES

Eye contact	Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin contact	Wash area thoroughly with soap and water. If skin irritation persists, call a physician.
Ingestion	Drink plenty of water.
Inhalation	Remove to fresh air.

5. FIRE FIGHTING MEASURES

Flash point °C	No data available
Flash point °F	No data available
Method	No information available
Autoignition temperature °C	No data available
Autoignition temperature °F	No data available
Flammability Limits (% in Air)	
Upper	No data available
Lower	No data available

Suitable extinguishing media
No information available

Extinguishing media which must NOT be used for safety reasons
No information available.

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up
Soak up excess with absorbent material. Collect and contain for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin and eyes.

Storage
No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Urea-triazone solution	-	-	-	-
Tetrapotassium Pyrophosphate	-	-	-	-
Urea	-	-	-	-
Water	-	-	-	-

Ventilation and Environmental Controls

Normal ventilation is adequate.

Hygiene measures

No information available

Personal protective equipment**Respiratory protection**

No special protective equipment required.

Hand protection

Gloves are recommended in case of open wounds that are not appropriately protected.

Eye protection

If splashes are likely to occur, wear: Use safety eyewear designed to protect against splash of liquids.

Skin and body protection

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Color	Clear Blue-green
Odor	Slight	Odor Threshold	No information available
pH	8.9	Specific Gravity	1.32
Vapor pressure	No data available	Vapor density	No data available
Evaporation Rate	No data available	VOC Content	0 %
Water solubility	No data available	Partition Coefficient (n-octanol/water)	No data available
		Boiling point/range °C	> 93
Boiling point/range °F	> 200	Melting point/range °C	No data available
Melting point/range °F	No data available	Flash point °C	No data available
Flash point °F	No data available		

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

No information available

Materials to avoid

No information available

Hazardous decomposition products

No information available

Polymerization

No information available

Synergistic Products

No information available.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Urea-triazone solution Mixture</i>	-	-	-
<i>Tetrapotassium Pyrophosphate 7320-34-5</i>	-	4640 mg/kg	-
<i>Urea 57-13-6</i>	8471 mg/kg	-	-
<i>Water 7732-18-5</i>	-	-	-

Potential health effects**Sensitization**

No information available.

Chronic toxicity

No information available.

Mutagenic effects

No information available.

Teratogenic effects

No information available

Reproductive toxicity

No information available

Target Organ Effects

No information available

Carcinogenic effects

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Urea-triazone solution	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Tetrapotassium Pyrophosphate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Urea	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Tetrapotassium Pyrophosphate

Water Flea Data

water flea EC50>100 mg/L (48 h)

Urea

Microtox Data

Photobacterium phosphoreum EC50=23914 mg/L (5 min)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Can be landfilled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

DOT

Not Regulated

TDG

Not Regulated

IMDG/IMO

Not Regulated

IATA

Not Regulated

MEX

Not Regulated

15. REGULATORY INFORMATION

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Urea-triazone solution	Not Listed	Not Listed	Not Listed
Tetrapotassium Pyrophosphate	Not Listed	Not Listed	Not Listed
Urea	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Urea-triazone solution	-	-	-	-
Tetrapotassium Pyrophosphate	X	X	-	X
Urea	X	X	-	X
Water	X	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA		HMIS	
Health	0	Health	0
Flammability	0	Flammability	0
Reactivity	0	Physical Hazard	0

Reason for revision

No information available.

Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.