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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Daley Pro 3 Spotter

Swisher number DA1883C1Q6
Reference number 1883C1Q6 1883CG15 1883CG5 1883CG55 1883F32
Distributor number

Recommended use General Purpose Spotter

Distributor Daley International
 4100 W. 76th Street,
 Chicago, IL 60652

Company Emergency Phone Number 773-284-6565

Chemical Emergency Phone Number INFOTRAC 1-352-323-3500 (International)
 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

WARNING

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed
 Irritating to skin
 Combustible liquid
 Severe eye irritation

Appearance Hazy Liquid.

Physical state Liquid.

Odor Citrus



OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential Health Effects
Principle Routes of Exposure Ingestion, Inhalation, Eye Contact, Skin Contact

Acute toxicity

Eyes Severely irritating to eyes
Skin Irritating to skin
Inhalation Irritating to respiratory system May cause central nervous system depression with nausea, headache, dizziness, and incoordination

Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea May cause additional affects as listed under "Inhalation"
Chronic Effects	No known effect based on information supplied
Aggravated Medical Conditions	Pre-existing eye, skin and respiratory disorders.
Environmental hazard	See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
D-Limonene	5989-27-5	< 5%
Ethylene glycol	107-21-1	< 5%
Diethylene glycol monomethyl ether	111-77-3	< 5%

4. FIRST AID MEASURES

General advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. GET IMMEDIATE MEDICAL ATTENTION.
Skin contact	Remove any contaminated clothing and wash before re-use. Wash with water for 10-15 minutes.
Inhalation	Remove to fresh air. If qualified give oxygen or artificial respiration as needed and/or seek medical help.
Ingestion	DO NOT induce vomiting. Give large amounts of water if victim is conscious. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician	Ingestion, depending on the dose, can cause abnormal behaviour, unconsciousness, convulsions, respiratory paralysis, pulmonary edema, as well as damages to liver and kidneys and can lead, in the worst case, to death. A quick treatment of an ethylene-glycol intoxication, when necessary with hemodialysis, may reduce the toxic effects. Intravenous ethyl alcohol in sodium bicarbonate solution is an approved antitoxin.
Protection of First-aiders	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device

5. FIRE-FIGHTING MEASURES

Flammable Properties	Contains flammable substances dissolved in water in low concentrations.
Flash point Method	(based on components) > 112 °F / > 44 °C TCC
Suitable Extinguishing Media	Carbon dioxide (CO ₂) Dry chemical Alcohol-resistant foam
Unsuitable Extinguishing Media	This product contain alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health Hazard 2	Flammability 2	Stability 0	Physical and chemical hazards -
HMIS	Health Hazard 2	Flammability 2	Physical Hazard 0	Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation Avoid contact with the skin and the eyes Use personal protective equipment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for cleaning up Small spills: Flush to sanitary sewer. Mop up residue and rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal

7. HANDLING AND STORAGE

Advice on safe handling Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water KEEP OUT OF REACH OF CHILDREN Wash thoroughly after handling Store away from sources of ignition

Technical measures/Storage conditions Keep away from open flames, hot surfaces and sources of ignition Keep container closed when not in use. Store in a cool, well-ventilated area. Avoid overheating or freezing. Wash thoroughly after handling. Keep out of reach of children. Spilled material is slippery

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment Institutional Environment

Eye/Face Protection	Tightly fitting safety goggles
Consumer Environments	Care should be taken to avoid Eye contact.
Skin and body protection	Rubber gloves
Respiratory protection	Ensure adequate ventilation
Hygiene measures	Practice good personal hygiene. Wash after handling.

Personal Protective Equipment Industrial Environment

Eye/Face Protection	Splash-proof chemical goggles or face shield.
Skin and body protection	Solvent-resistant apron and boots Solvent-proof gloves

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	Do not eat, drink or smoke when using this product Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Hazy Liquid.	Odor	Citrus
Color	Opaque		
Property	Values	Remarks Methods	
pH	8.5 ± 0.5		
Melting/freezing point		No data available	
Freezing Point		No data available	
Boiling point/boiling range	~ 100 °C / 212 °F	Estimated	
Flash Point	> 44 °C / > 112 °F	TCC	
Evaporation rate	About the same as water	Similar to water	
Flammability (solid, gas)		No information available	
Flammability Limits in Air		No information available	
upper flammability limit			
lower flammability limit			
Explosion Limits			
upper			
lower			
Vapor pressure	NE	No information available	
Vapor density	NE	No information available	
Specific Gravity	0.996 +/- 0.005		
Water solubility	Completely soluble.	Completely soluble.	

9.2 Other information

VOC Content(%) < 10 %

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible products	Acids Oxidizers
Conditions to Avoid	Heat, flames and sparks
Hazardous Decomposition Products	On burning carbon monoxide and dioxide
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information May be harmful by inhalation, ingestion, or skin absorption.

Inhalation	Vapors may irritate throat and respiratory system May cause central nervous system depression with nausea, headache, dizziness, and incoordination
Eye contact	Irritating to eyes.
Skin contact	Prolonged contact may cause redness and irritation
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Limonene	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Ethylene glycol	4000 mg/kg (Rat)	9530 µL/kg (Rabbit)	
Diethylene glycol monomethyl ether	4 mL/kg (Rat)	2500 µL/kg (Rabbit)	

Chronic toxicity

Chronic toxicity No known effect based on information supplied

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

Chemical Name	ACGIH	IARC	NTP	OSHA
D-Limonene		Group 3		

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects Central nervous system

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
D-Limonene		0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		
Ethylene glycol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 41000: 96 h Oncorhynchus mykiss mg/L LC50	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	46300: 48 h Daphnia magna mg/L EC50
Diethylene glycol monomethyl ether	500: 72 h Desmodesmus subspicatus mg/L EC50	5741: 96 h Pimephales promelas mg/L LC50 7500: 96 h Lepomis macrochirus mg/L LC50 7500: 96 h Lepomis macrochirus mg/L LC50 static	EC50 > 10000 mg/L 17 h	>500: 48 h Daphnia magna mg/L EC50

Chemical Name	log Pow
Ethylene glycol	0
Diethylene glycol monomethyl ether	0

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

Contaminated packaging

Do not re-use empty containers

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
D-Limonene	Toxic

14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	TSCA
DSL	Complies
NDSL	Complies
EINECS	Complies
ELINCS	-
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ethylene glycol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains substances regulated by state right-to-know regulations.

International Regulations**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Chemical Name	NPRI
Ethylene glycol	X

16. OTHER INFORMATION

Prepared By	Daley International 4100 West 76th Street Chicago, IL 60652	Issuing date	06-Nov-2012	Revision Date	18-Jul-2012
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Revision Note

1.

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

Safety Data Sheet