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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Daley Pro 4 Spotter
Swisher number	DA1884CH1Q6
Reference number	1884CH1Q6 1884FH32
Distributor number	
UN/ID No	3264
Recommended use	Rust remover
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

DANGER!

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed
Corrosive; causes burns to eyes and skin

Appearance Clear Liquid

Physical state Liquid.

Odor Slight solvent odor



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

Eye contact Skin contact Ingestion

Acute toxicity

Eyes

Corrosive - causes irreversible eye damage

Skin

Contact causes severe skin irritation and possible burns

Inhalation	Irritating to respiratory system
Ingestion	Severe irritation of the gastrointestinal tract, causing vomiting, nausea and burns.
Chronic Effects	No known effect
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 %
Oxalic acid	144-62-7	< 12%
2-Butoxyethanol	111-76-2	< 5%

4. FIRST AID MEASURES

General advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Skin contact	Wash with water for 5-10 minutes. Remove any contaminated clothing and wash before reuse. If condition persists, Consult a physician.
Inhalation	Remove to fresh air. Seek medical attention if symptoms persist.
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	Treat symptomatically
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	Not flammable
Flash point	None to boiling.
Method	TCC
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
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 0	Stability 0	Physical and chemical hazards COR
HMIS	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with the skin and the eyes Use personal protective equipment Ensure adequate ventilation
Environmental precautions	Neutralization is normally necessary before waste water is discharged into water treatment plants.
Methods for Containment	Prevent further leakage or spillage if safe to do so Contain spill. Neutralize with weak base solution
Methods for cleaning up	Mop up & flush neutralized material to sewer with plenty of water.
Other information	Common Weak Bases suitable for neutralizing corrosive acids: calcium hydroxide / lime, baking soda / sodium bicarbonate, soda ash / washing soda / sodium carbonate, medical antacids, and powdered limestone / calcium carbonate.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid prolonged exposure KEEP OUT OF REACH OF CHILDREN Wash thoroughly after handling
Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Oxalic acid 144-62-7	STEL: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³	IDLH: 500 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures Ensure that eyewash stations and safety showers or an equivalent method of decontamination are close to the work location.

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	Acid proof gloves, impervious rubber boots & apron.
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
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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid	Odor	Slight solvent odor
Appearance	Clear Liquid		
Color	colorless		
Property	Values	Remarks	Methods
pH	2.0 +/- 0.5		
Melting/freezing point		No data available	
Freezing Point		No data available	
Boiling point/boiling range	~ 100 °C / 212 °F	Estimated	
Flash Point		TCC	
Evaporation rate		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		No information available	
Vapor density		No information available	
Specific Gravity	1.020 ± 0.005		
Water solubility	0.005	Completely soluble.	

9.2 Other information

VOC Content(%)	< 5%
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10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible products	Alkalies Bleach
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	None known based on information supplied
Hazardous Reactions	Reacts with chlorine-containing products such as bleach to produce toxic gas
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information	Harmful by inhalation, in contact with skin and if swallowed.
Inhalation	Irritating to respiratory system.

Eye contact	Corrosive to the eyes and may cause severe damage including blindness
Skin contact	Contact causes severe skin irritation and possible burns
Ingestion	Severe irritation of the gastrointestinal tract, causing vomiting, nausea and burns May cause adverse kidney effects

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	2.21 mg/L (Rat) 4 h 450 ppm (Rat) 4 h
Oxalic acid	7500 mg/kg (Rat)	20000 mg/kg (Rat)	

Chronic toxicity

Chronic toxicity No known effect

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

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects Kidney

12. ECOLOGICAL INFORMATION

Ecotoxicity

Large amounts will affect pH and harm aquatic organisms Neutralization is normally necessary before waste water is discharged into water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2-Butoxyethanol		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 >1000: 48 h Daphnia magna mg/L EC50
Oxalic acid		4000: 24 h Lepomis macrochirus mg/L LC50 static		125 - 150: 48 h Daphnia magna mg/L EC50 Static

Chemical Name	log Pow
Oxalic acid	0
2-Butoxyethanol	0.81

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
Oxalic acid	Toxic

14. TRANSPORT INFORMATION

DOT	Regulated
Proper shipping name	Corrosive liquid, acidic, inorganic, (Oxalic Acid)
Hazard class	8
UN/ID No	3264
Packing Group	III
Emergency Response Guide Number	153

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	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	Yes

Clean Water Act

This product contains the following substances which are regulated 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)

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

Chemical Name	Carcinogen Status	Exposure Limits
Oxalic acid		Mexico: TWA 1 mg/m ³ Mexico: STEL 2 mg/m ³
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³

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
2-Butoxyethanol	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By	Daley International 4100 West 76th Street Chicago, IL 60652	Issuing date	03-Jul-2012	Revision Date	28-Nov-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