# SAFETY DATA SHEET

**Issuing date** 29-Jun-2012 **Revision Date** 30-Sep-2014 **Version** 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**
**Product name** Daley Pro Spotter #1

**Other means of identification**
**Product Code** 1881
**UN/ID No** UN3266
**Document** 1881CH1Q6

**Recommended use of the chemical and restrictions on use**
**Recommended use** Spotter: Health, Blood, and Iodine Stains.

**Details of the supplier of the safety data sheet**
**Distributor**
Daley International
4100 W. 76th Street,
Chicago, IL 60652

**Emergency telephone number**
**24 Hour Emergency Phone Number** CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
1-703-527-3887 (INTERNATIONAL)
**Company Phone Number** 773-284-6565

## 2. HAZARDS IDENTIFICATION

**Classification**

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

| | |
|---|---|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Flammable liquids | Category 3 |

**Label elements**

**Emergency Overview**

**Warning**

**Hazard Statements**
Causes skin irritation
Causes serious eye irritation
Flammable liquid and vapor

**Appearance** Transparent **Physical state** Liquid **Odor** Ammonia

**Precautionary Statements - Prevention**
• Wash face, hands and any exposed skin thoroughly after handling
• Wear protective gloves/protective clothing/eye protection/face protection
• Keep away from heat/sparks/open flames/hot surfaces. — No smoking
• Keep container tightly closed
• Ground/bond container and receiving equipment
• Use explosion-proof electrical/ventilating/lighting/equipment
• Use only non-sparking tools
• Take precautionary measures against static discharge

**Precautionary Statements - Response**
• IF exposed or concerned: Get medical advice/attention

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

• If skin irritation occurs: Get medical advice/attention
• IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
• Wash contaminated clothing before reuse

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

• IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
**Other information**
• May be harmful if swallowed
• Harmful to aquatic life with long lasting effects
• Harmful to aquatic life

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

| Chemical Name | CAS-No | Weight-% | Trade Secret |
|---|---|---|---|
| 2-Butoxyethanol | 111-76-2 | 1% - 12% | * |
| Isopropyl alcohol | 67-63-0 | 1% - 5% | * |
| Sodium hydroxide | 1310-73-2 | 1% - 3% | * |
| Potassium hydroxide | 1310-58-3 | 1% - 3% | * |
| Ammonium hydroxide | 1336-21-6 | < 1% | * |

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

## 4. FIRST AID MEASURES

**First aid measures for different exposure routes**

**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** Wash with water for 5-10 minutes. Remove any contaminated clothing and wash before reuse. If condition persist, Consult a physician.

**Inhalation** If qualified give oxygen or artificial respiration as needed.

**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.

**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. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms/effects, acute and delayed**

**Main Symptoms** The most important known symptoms and effects are described in the labelling in section 2 and/or in section 11.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Carbon dioxide ($CO_2$). Dry chemical. Alcohol-resistant foam.

**Unsuitable Extinguishing Media** This product contains alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

**Specific hazards arising from the chemical**
Runoff may pollute waterways. Flammable hydrogen gas will be liberated upon contact with various metals.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

**Other information** Common Weak Acids suitable for neutralizing caustic alkalis: acetic acid, citric acid, lemon juice, tartaric acid, vinegar.

**Environmental precautions**

**Environmental precautions** Neutralization is normally necessary before waste water is discharged into water treatment plants. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Contain spill with inert material. Dike around large spills. Do not use organic absorbents or incompatible materials. Neutralize with mild acid.

**Methods for cleaning up** Mop up & flush neutralized material to sewer with plenty of water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** KEEP OUT OF REACH OF CHILDREN. Keep away from heat, sparks and open flame. No smoking. Do not eat, drink or smoke when using this product. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions** Keep container in cool well ventilated area. Store away from incompatible materials. Keep out of the reach of children. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible products** Strong oxidizing agents. Strong acids, reactive metals (i.e. aluminum or zinc).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** Review Section 3 & 4 for Exposure Guidelines.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m³<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m³ |
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m³ | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m³<br>STEL: 500 ppm<br>STEL: 1225 mg/m³ |
| Sodium hydroxide<br>1310-73-2 | - | TWA: 2 mg/m³ | IDLH: 10 mg/m³<br>Ceiling: 2 mg/m³ |
| Potassium hydroxide<br>1310-58-3 | 2 mg/m³ | 2 mg/m³ | Ceiling: 2 mg/m³ |

**Appropriate engineering controls**

**Engineering Measures** Ensure that eyewash stations and safety showers or an equivalent method of decontamination are close to the work location. Ensure adequate ventilation, especially in confined areas

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Splash-proof chemical goggles or face shield.

**Skin and body protection** Wear appropriate chemical resistant clothing and chemical resistant gloves. Nitrile rubber.

**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

**Physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Transparent | **Odor** | Ammonia |
| **Color** | Yellow | **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks • Methods** |
|---|---|---|
| **pH** | 13.5 +/- 0.3 | |
| **Melting/freezing point** | No information available | |
| **Boiling point/boiling range** | ~ 100 °C / 212 °F | Estimated |
| **Flash Point** | ~ 52 °C / ~ 118 °F | TCC |
| **Evaporation rate** | About the same as water | |
| **Flammability (solid, gas)** | No information available | |
| **Flammability Limits in Air** | | |
| **Upper flammability limit** | No information available | |
| **Lower flammability limit** | No information available | |
| **Vapor pressure** | NE | |
| **Vapor density** | NE | |
| **Specific Gravity** | 1.017 +/- 0.005 | |
| **Water solubility** | Completely soluble. | Completely soluble. |
| **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 | |
| **Viscosity, kinematic** | No information available | |
| **Viscosity, dynamic** | No information available | |
| **Explosive properties** | No information available | |
| **Oxidizing Properties** | No information available | |

**Other information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular Weight** | No information available |
| **VOC Content(%)** | < 10 % |
| **Density VALUE** | No information available |
| **Bulk Density VALUE** | No information available |

## 10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
None under normal processing.

**Conditions to Avoid**
Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials**
Strong oxidizing agents. Strong acids, reactive metals (i.e. aluminum or zinc).

**Hazardous Decomposition Products**
If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides; toxic vapors of amines and other organic materials. Hydrogen gas by reaction with incompatible metals.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information** Causes serious eye irritation Causes skin irritation

**Inhalation** Irritating to respiratory system. Aspiration into lungs can produce severe lung damage. May cause central nervous system depression with nausea, headache, dizziness, and incoordination.

**Eye contact** Severely irritating to eyes.

**Skin contact** Contact causes severe skin irritation and possible burns. May be absorbed through the skin in harmful amounts.

**Ingestion** Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause additional affects as listed under "Inhalation".

| Chemical Name | Oral LD50 | Dermal LD50 | LC50 Inhalation |
|---|---|---|---|
| 2-Butoxyethanol 111-76-2 | = 470 mg/kg ( Rat ) | = 99 mg/kg ( Rabbit ) | = 450 ppm ( Rat ) 4 h |
| Isopropyl alcohol 67-63-0 | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit ) | = 72600 mg/m³ ( Rat ) 4 h |
| Sodium hydroxide 1310-73-2 | 140 mg/kg (Rat) | = 1350 mg/kg ( Rabbit ) | - |
| Potassium hydroxide 1310-58-3 | = 284 mg/kg ( Rat ) | - | - |
| Ammonium hydroxide 1336-21-6 | = 350 mg/kg ( Rat ) | - | - |

**Information on toxicological effects**

**Symptoms** No information available.

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

**Sensitization** No information available.
**Mutagenic effects** No information available.
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. The strong acid process for manufacturing isopropanol has been linked to an increased risk of cancer by IARC and OSHA. However, IARC and OSHA have found no evidence that isopropanol is carcinogenic to humans outside of that specific environment.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| 2-Butoxyethanol 111-76-2 | A3 | Group 3 | - | - |
| Isopropyl alcohol 67-63-0 | - | 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*
*OSHA: (Occupational Safety & Health Administration)*
*X - Present*

**Reproductive toxicity** No information available.
**STOT - single exposure** No information available.
**STOT - repeated exposure** No information available.
**Chronic toxicity** Prolonged exposure may cause chronic effects. Avoid repeated exposure.
**Target Organ Effects** Central nervous system.
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document** .

**ATEmix (oral)** 4878 mg/kg
**ATEmix (dermal)** 13506 mg/kg
**ATEmix (inhalation-dust/mist)** 22.5 mg/l
**ATEmix (inhalation-vapor)** 7759 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

1.6115% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | - | 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 |
| Isopropyl alcohol<br>67-63-0 | 1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50 | 1400000: 96 h Lepomis macrochirus µg/L LC50 11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through | 13299: 48 h Daphnia magna mg/L EC50 |
| Sodium hydroxide<br>1310-73-2 | - | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static | - |
| Potassium hydroxide<br>1310-58-3 | - | 80: 96 h Gambusia affinis mg/L LC50 static | - |
| Ammonium hydroxide<br>1336-21-6 | - | 8.2: 96 h Pimephales promelas mg/L LC50 | 0.66: 48 h Daphnia pulex mg/L EC50 0.66: 48 h water flea mg/L EC50 |

**Persistence and degradability**
Product is biodegradable.

**Bioaccumulation**
No information available.

| Chemical Name | Partition coefficient |
|---|---|
| 2-Butoxyethanol<br>111-76-2 | 0.81 |
| Isopropyl alcohol<br>67-63-0 | 0.05 |
| Potassium hydroxide<br>1310-58-3 | 0.65<br>0.83 |

**Other adverse effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment**

**Waste Disposal Methods** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

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 |
|---|---|
| Isopropyl alcohol<br>67-63-0 | Toxic Ignitable |
| Sodium hydroxide<br>1310-73-2 | Toxic Corrosive |
| Potassium hydroxide<br>1310-58-3 | Toxic Corrosive |
| Ammonium hydroxide<br>1336-21-6 | Toxic Corrosive |

## 14. TRANSPORT INFORMATION

**DOT** Regulated
**UN/ID No** UN3266
**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide, Potassium Hydroxide)

| | |
|---|---|
| **Hazard class** | 8 |
| **Packing Group** | II |
| **Emergency Response Guide Number** | 154 |

## 15. REGULATORY INFORMATION

### International Inventories

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

### Legend:

**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:

| Chemical Name | SARA 313 - Threshold Values % |
|---|---|
| 2-Butoxyethanol - 111-76-2 | 1.0 |
| Isopropyl alcohol - 67-63-0 | 1.0 |
| Ammonium hydroxide - 1336-21-6 | 1.0 |

#### SARA 311/312 Hazard Categories

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic Health Hazard** | no |
| **Fire Hazard** | Yes |
| **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):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Sodium hydroxide 1310-73-2 | 1000 lb | - | - | X |
| Potassium hydroxide 1310-58-3 | 1000 lb | - | - | X |
| Ammonium hydroxide 1336-21-6 | 1000 lb | - | - | X |

**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 |
|---|---|---|---|
| Sodium hydroxide<br>1310-73-2 | 1000 lb | - | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Potassium hydroxide<br>1310-58-3 | 1000 lb | - | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Ammonium hydroxide<br>1336-21-6 | 1000 lb | - | RQ 1000 lb final RQ<br>RQ 454 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.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | X | X | X |
| Isopropyl alcohol<br>67-63-0 | X | X | X |
| Sodium hydroxide<br>1310-73-2 | X | X | X |
| Potassium hydroxide<br>1310-58-3 | X | X | X |
| Ammonium hydroxide<br>1336-21-6 | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** 3 | **Flammability** 2 | **Instability** 1 | **Physical and chemical hazards** COR |
| **HMIS** | **Health hazard** 3 | **Flammability** 2 | **Physical Hazards** 1 | **Personal protection** X |

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**Disclaimer**

**The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**