



Safety Data Sheet

Section 1: Identification

**Product Identifier**

Detergent

**Product Name**

Trade Name: House, Deck and Fence Pressure Washer Cleaner

PN (Part number): 320018-35

**Relevant identified uses of the substance or mixture and uses advised against**

-Material for industrial applications

-Industrial and professional use

-Consumer end use

**Details of the supplier of the safety data sheet**

**Manufacturer**

SPLASH Products  
51 E. Maryland Ave.  
St. Paul, MN 55117  
Phone: (651) 489-8211

**Emergency telephone number**

1-800-535-5053

Section 2: Hazard(s) Identification

**OSHA/HCS status**

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

**Classification of the substance or mixture**

Skin Corrosion/Irritation Category 1

Serious Eye Damage/Eye Irritation Category 1

Hazardous to the aquatic environment – Acute Category 3

**GHS label elements**

**Hazard pictograms**



**Signal word-DANGER**

Potassium Hydroxide

**Hazard statements**

Causes severe skin burns and eye damage

Causes serious eye damage

Harmful to aquatic life

**Precautionary statements**

**Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.

Take off contaminated clothing and wash before use

Keep away from oxidizing materials and strong acids

**Response**

IF SWALLOWED: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth cautiously with water for several minutes. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

IF ON SKIN (or hair): Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.

IF IN EYES: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Cold water may be used. Get medical attention immediately.

IF EXPOSED or CONCERNED:

Immediately call a POISON CENTER or a doctor/physician.

**Storage**

Store in a well-ventilated place.

**Disposal**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified**

Product is stable.

**Section 3: Composition/Information on Ingredients**

Substance/mixture: Mixture

Chemical name: N/A

Other means of identification: No

**CAS number/other identifiers**

Ingredient name	%	CAS number
Potassium Hydroxide	<1	1310-58-3
2-butoxyethanol	1.5	111-76-2

**Section 4: First Aid Measurements**

**Description of necessary first aid measures**

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Cold water may be used. Get medical attention immediately.

Inhalation: Bring accident victims out into the fresh air. Call a physician immediately in severe cases or if recovery is not rapid.

Skin contact: After contact with skin, wash immediately with plenty of water. Remove contaminated clothing and wash before reuse.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

**Potential acute health effects**

**Eye contact**

Can cause irritation to eyes and mucous membranes.

**Inhalation**

Sore throat, shortness of breath, coughing and congestion.

**Skin contact**

Causes skin irritation.

**Ingestion**

Irritation to mucous membranes.

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

**Notes to physician**

Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

**Specific treatments**

N/A

**Protection of first-aiders**

N/A

**See toxicological information (Section 11)**

Section 5: Fire Fighting Measures

**Extinguishing media**

**Suitable extinguishing media**

SMALL FIRE: Use DRY chemical powder, CO<sub>2</sub> or appropriate foam.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Unsuitable extinguishing media**

None known

**Specific hazards arising from the chemical**

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes.

**Hazardous thermal decomposition products/Products of combustion**

Products of combustion are carbon oxides (CO, CO<sub>2</sub>).

**Special protective actions for fire fighters**

Construct a dike to prevent spreading.

**Special protective equipment for fire-fighters**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

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

**For non-emergency personnel**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Environmental precautions**

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

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7: Handling and Storage

**Precautions for safe handling**

**Protective measures, advice on general occupational hygiene and conditions for safe storage, including any incompatibilities:**

Keep container tightly closed. Do not breathe dust, fumes, gas, mist, vapors or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, and eye and face protection. Keep container tightly closed in a cool, well-ventilated place. Keep away from oxidizing materials and strong acids.

Section 8: Exposure Controls/Personal Protection

**Control parameters**

**Occupational exposure limits**

Ingredient name	Exposure limits			
	ACGIH		OSHA	
	(TWA)	(STEL)	(TWA)	(STEL)
Methanol	2 mg/m <sup>3</sup>	N/A	2 mg/m <sup>3</sup>	N/A
2-butoxyethanol	(TWA)	(STEL)	(PEL)	(STEL)
	20 ppm	N/A	50 ppm; 240 mg/m <sup>3</sup>	N/A

**Appropriate engineering controls and Environmental exposure controls**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Individual protection measures**

**Hygiene measures**

Wash at the end of each work shift and before eating, smoking or using the toilet

**Eye/face protection:** Use chemical safety goggles.

**Skin protection**

**Hand protection and Body protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Other skin protection**

Wash hands and other exposed areas with mild soap and water before eating or drinking.

**Respiratory protection:** No respiratory protection required under normal circumstances.

**Respirator Type(s) (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full face piece particulate respirator (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, Glycerin, etc.) are present, use a NIOSH

type R or P filter. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in Oxygen-deficient atmospheres.

#### Section 9: Physical and Chemical Properties

##### **Appearance**

**Physical state:** Red Liquid

**Odor:** None

**Odor threshold:** Not determined

**pH:** 12.5-13.5

**Specific Gravity:** 1.010

**Melting point:** No Data Available

**Boiling point:** No Data Available

**Flash point:** No Data Available

**Evaporation rate (BuAc=1):** No Data Available

**Flammability (solid, gas):** No

**Lower and upper explosive (flammable) limits:** LEL 1.1%, UEL 10% (2-butoxyethanol)

**Vapor pressure:** No Data Available

**Vapor density (Air=1):** No Data Available

**Solubility:** Soluble in water

**Partition coefficient: n-octanol/water:** Not Established

**Auto-ignition temperature:** Not Applicable

**Decomposition temperature:** Not Established

**Viscosity:** Not determined

**VOC%:** 1.5

#### Section 10: Stability and Reactivity

##### **Reactivity**

Stable under recommended storage conditions.

##### **Chemical stability**

Stable under recommended storage conditions.

##### **Possibility of hazardous reactions**

Will not occur.

##### **Conditions to avoid**

Avoid excessive heat, open flame or other sources of ignition.

##### **Incompatible materials**

Water-reactive materials, strong acids, Halogenated Hydrocarbons, copper alloys, maleic anhydride, oxidizing agents, materials reactive with hydroxyl compounds.

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents.

Organic acids (i.e. acetic acid, citric acid etc.).

Sodium hypochlorite.

##### **Hazardous decomposition products**

Potassium Oxide, nitrogen oxides, carbon oxides, ammonia, aldehydes, nitrosamine.

#### Section 11: Toxicological Information

**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Test	Results
Potassium Hydroxide	Acute toxicity, oral (male rat)	LD50 = 214 mg/kg
	Acute toxicity, dermal	LD50 = 1,260 mg/kg
	Acute toxicity, inhalation (rat)	LC50 Rat: No Data Available
2-butoxyethanol	Acute toxicity, oral (male rat)	LD50 = 1,300 mg/kg
	Acute toxicity, dermal	LD50 = >2000 mg/kg
	Acute toxicity, inhalation (rat, 3h)	LC50 = >4.9 mg/l

**Summary Comments:****Sensitization**

Product/ingredient name	Test	Results	Basis
Potassium Hydroxide			No evidence of sensitization effect
2-butoxyethanol			No evidence of sensitization effect

**Summary Comments:****Carcinogenicity**

Product/ingredient name	Test	Results	Basis
Potassium Hydroxide			No known carcinogenic effects
2-butoxyethanol			Based on available data the classification criteria are not met. Not classified as hazardous.

**Summary Comments:****Specific target organ toxicity (single exposure)**

Product/ingredient name	Test	Results	Basis
Potassium Hydroxide		No Data Available	

**Summary Comments:****Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Test	Results	Basis
Potassium Hydroxide		No Data Available	
2-butoxyethanol		Not classified.	

**Summary Comments:****Aspiration hazard**

Product/ingredient name	Test	Results	Basis
Potassium Hydroxide		No Data Available	
2-butoxyethanol		Human exposure studies	Tolerance at 200 ppm/40 hours

**Summary Comments:**

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Information on the likely routes of exposure**

Skin, eyes, Ingestion, inhalation.

**Potential acute health effects**

**Eye contact:** Corrosive to the eyes.

**Inhalation:** Vapors are corrosive.

**Skin contact:** Strongly corrosive. May cause deep tissue damage.

**Ingestion:** Causes severe burns.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact:** Eye irritation.

**Inhalation:** After some hours, injured persons may develop serious shortness of breath and lung edema.

**Skin contact:** Skin irritation.

**Ingestion:** May irritate the gastrointestinal tract, cause nausea, and vomiting.

**Potential chronic health effects (Potassium Hydroxide)**

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Teratogenicity:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

**Developmental effects:** No data available.

**Fertility effects:** Contains no ingredient listed as toxic to reproduction.

Section 12: Ecological Information
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**Toxicity**

**Acute Fish toxicity: (Potassium Hydroxide)**

LC50 - *Gambusia affinis* (Mosquito fish) - 80 mg/l - 96 h

**Acute Fish toxicity: (2-butoxyethanol)**

LC50 - *Oncorhynchus mykiss* (rainbow trout) – 1,474 mg/l - 96 h

**Acute toxicity for invertebrates: (2-butoxyethanol)**

EC50 - *Daphnia magna* (Water flea) – 1,550 mg/l - 48 h

**Acute toxicity for aquatic plants: (2-butoxyethanol)**

EC-50 (Algae (*Pseudokirchneriella subcapitata*), 72 h): 1,840 mg/l

**Ecotoxicology Assessment: (Potassium Hydroxide and 2-butoxyethanol)**

Material is expected to be slightly harmful to aquatic life.

**Persistence and degradability**

**Biodegradability: (Potassium Hydroxide)**

The methods for determining the biological degradability are not applicable to inorganic substances

**Biodegradability: (2-butoxyethanol)**

90.4 % (28 d) readily biodegradable

**Stability in water: (Potassium Hydroxide and 2-butoxyethanol)**

No Data Available

**Photodegradation: (Potassium Hydroxide and 2-butoxyethanol)**

No data available

**Volatility (Henry's Law constant): (Potassium Hydroxide and 2-butoxyethanol)**

Partition coefficient n-octanol/water (log  $K_{ow}$ ) = No Data Available

**Bioaccumulative potential**

**Bioaccumulation: (Potassium Hydroxide and 2-butoxyethanol)**

Potential to bioaccumulate is low.

Bioconcentration factor (BCF): No data available.

**Mobility in soil: (Pressure Wash)**

**Distribution among environmental compartments:**

Expected to partition to water.

**Other adverse effects:**

Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.

Section 13: Disposal Considerations
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**Disposal methods**

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

Section 14: Transport Information
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**UN Number:** N/A

**DOT Proper Shipping Name:** Limited Quantity, Consumer Commodity, ORM-D

**Exemptions:** Per 49 CFR 173.154 (pg III, inner package not over 5.0 L)

**Transport hazard Class(es):** N/A

**Packing Group:** N/A

**Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)**

**Transport Hazard Class(es):** N/A

**Maritime Transport IMDG/GGVSea**

**Transport Hazard Class(es):** N/A

**Marine Pollutant:** No

**Air Transport ICAO-TI and IATA-DGR**

**Transport Hazard Class(es):** N/A

Section 15: Regulatory Information
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## Chemical Inventory Status-Part 1

Ingredient (CAS#)	TSCA	EC	Japan	Australia
Potassium Hydroxide (1310-58-3)	Yes	Yes	Yes	Yes

## Chemical Inventory Status-Part 2

Ingredient (CAS#)	Korea	Canada	Canada	Philippines
		DSL	NDSL	
Potassium Hydroxide (1310-58-3)	Yes	Yes	No	Yes

## Federal, State &amp; International Regulations-Part 1

Ingredient (CAS#)	SARA 302		SARA 313	
	RQ	TPQ	List Chemical	Category
Potassium Hydroxide (1310-58-3)	No	No	No	No

## Federal, State &amp; International Regulations-Part 2

Ingredient (CAS#)	RCRA		TSCA
	CERCLA	261.33	8(d)
Potassium Hydroxide (1310-58-3)	1000 lb.	No	No

Chemical Weapons Convention: No



TSCA 12b: No

CDTA: No

**SARA 311/312:**

Acute: Yes,      Chronic: Yes,      Fire: No,      Pressure: No,      Reactivity: Yes

Mixture/Liquid

Australian Hazchem Code: 2R

Poison Schedule: S6

Section 16: Other Information

**History**

**Date of issue: 04/17/15**

**Version: 1a**

**Revised Sections(s): New**

**Prepared by: Andrew Gioino, SPLASH PRODUCTS**

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.