

# Safety Data Sheet

## SECTION I - IDENTIFICATION

**PRODUCT NAME:** Tufstuff  
**PRODUCT CODE:** 235100004-20AR  
**PRODUCT USE:** Oven Cleaner  
**COMPANY NAME:** Advanced Chemical Solutions  
**COMPANY ADDRESS:** 216 Moore Lane, Billings, MT 59101  
**COMPANY PHONE:** 406-259-7935  
**EMERGENCY PHONE:** 800-255-3924

## SECTION II – HAZARDS IDENTIFICATION

**CLASSIFICATION:** Liquefied Gas

Corrosive to Metals

Skin Corrosive: Category 1B

Skin Damage: Category 1

**HAZARD STATEMENT(S): DANGER:** Contains gas under pressure; May explode if heated. Causes Severe skin burns and eye damage. May be corrosive to metals.

This product contains the following percentage of chemicals of unknown toxicity: 0%

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and hot surfaces. –No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Do not breathe mists. Wash hands thoroughly after handling. Wear protective gloves and eye protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations. Keep only in original container. Absorb spillage to prevent material damage. Store in a corrosive resistant container with a resistant inner liner.



**SYMBOL:**

**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

## SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Potassium Hydroxide	1310-58-3	5-10%
Propane/n-Butane	68476-86-8	5-10%

## SECTION IV - FIRST AID MEASURES

**EYES:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**INGESTION:** If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

**INHALATION:** If inhaled: Remove person to fresh air and keep comfortable for breathing.

**SKIN:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**ACUTE HEALTH HAZARDS:** Causes severe burns.

**CHRONIC HEALTH HAZARDS:** Dermatitis may occur due to long-term irritation. Potassium hydroxide may produce inflammation of the eyes, skin, and mucous membranes. Esophageal carcinoma at the site of a chronic lye stricture has been reported. [Gosselin, Smith & Hodge 1984]

**NOTE TO PHYSICIAN:** The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

## SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use appropriate media for surrounding fire.

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**UNSUITABLE EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** Move container from fire area if it can be done without risk. Cool containers with water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contact with some metals, particularly magnesium, aluminum, and galvanized zinc can generate hydrogen gas rapidly which is explosive. Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** None Known

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Dike area to contain spill. Dilute spill with large quantities of water and then neutralize with a dilute acid. flush area with water until clean. wear ppe equipment:safety goggles, chemical resistant clothing, and gloves

**WASTE DISPOSAL:** Dispose of in accordance with all local, state and federal environmental rules and regulations. Check the pH of the waste to be disposed, if it is greater than 12.5 it must be handled as a RCRA hazardous waste. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste Number(s): D002

**RCRA STATUS:** Dispose of in accordance with all local, state and federal environmental rules and regulations. Check the pH of the waste to be disposed, if it is greater than 12.5 it must be handled as a RCRA hazardous waste. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste Number(s): D002

## SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Store locked up.

**OTHER PRECAUTIONS:**

**INCOMPATIBILITY:** Organic materials, concentrated acids metal. May react with certain food sugars.

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Potassium Hydroxide	2 mg/m3	2 mg/m3
Propane/n-Butane	1000 ppm	1000 ppm

**ENGINEERING CONTROLS / VENTILATION:** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable limits.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if exposure limits are exceeded.

**PERSONAL PROTECTIVE EQUIPMENT:** Chemical resistant gloves and eye protection

**ADDITIONAL MEASURES:** Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** White Foam

**ODOR:** Lemon scent

**ODOR THRESHOLD:**

**BOILING POINT:** Approx. 212°F (100°C)

**FREEZING POINT:** N/D

**FLAMMABILITY:** Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)

**FLASH POINT:** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**VAPOR PRESSURE (mm Hg):** 17.5 @ 77°F (25°C)

**VAPOR DENSITY (AIR=1):** 1

**EVAPORATION RATE:** < 0.8 (Slow)

**SPECIFIC GRAVITY (H2O=1):** 1.085 @ 77°F (25°C)

**pH:** >13

**SOLIDS (%):** N/D

**SOLUBILITY IN WATER:** 100%

**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D

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**VOLATILITY INCLUDING WATER (%):** 90%  
**VOLATILE ORGANIC COMPOUNDS (VOC):** 9%  
**DIELECTRIC STRENGTH (Volts):** N/A  
**DECOMPOSITION TEMPERATURE:** N/D  
**VISCOSITY:** N/D

## SECTION X – STABILITY AND REACTIVITY DATA

**REACTIVITY:** Chemically active metals and acids  
**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Organic materials, concentrated acids metal. May react with certain food sugars.  
**INCOMPATIBILITY:** Organic materials, concentrated acids metal. May react with certain food sugars.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Some metals can release oxides of phosphorus and release hydrogen gas which can be explosive  
**POSSIBLE HAZARDOUS REACTIONS:** None Known

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Potassium Hydroxide (7732-18-5) LD<sub>50</sub> (Dermal, Rabbit) > 2 g/kg, LD<sub>50</sub> (Oral, Rabbit) 500-700 mg/kg  
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin  
**EYES:** Causes severe burns, irritation, redness, tearing, pain, may result in loss of sight.  
**INGESTION:** Will cause extensive damage to tissue and may be fatal.  
**INHALATION:** May cause irritation (possibly severe), chemical burns, upper respiratory damage, and pulmonary edema  
**SKIN:** Causes severe burns. prolonged contact will destroy tissue.  
**MEDICAL CONDITION AGGRAVATED:** Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. Skin irritation may be aggravated in individuals with existing skin disorders.  
**ACUTE HEALTH HAZARDS:** Causes severe burns.  
**CHRONIC HEALTH HAZARDS:** Dermatitis may occur due to long-term irritation. Potassium hydroxide may produce inflammation of the eyes, skin, and mucous membranes. Esophageal carcinoma at the site of a chronic lye stricture has been reported. [Gosselin, Smith & Hodge 1984  
**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Potassium Hydroxide (1310-58-3) LC<sub>50</sub> (Mosquito Fish, 24hr) 80 mg/L  
**BIODEGRADABILITY:** Component or components of this product are not biodegradable.  
**BIOACCUMULATION:** This product is not expected to bioaccumulate.  
**SOIL MOBILITY:** This product is mobile in soil.  
**OTHER ECOLOGICAL HAZARDS:** None Known

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with all local, state and federal environmental rules and regulations. Check the pH of the waste to be disposed, if it is greater than 12.5 it must be handled as a RCRA hazardous waste. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste Number(s): D002  
**RCRA STATUS:** Dispose of in accordance with all local, state and federal environmental rules and regulations. Check the pH of the waste to be disposed, if it is greater than 12.5 it must be handled as a RCRA hazardous waste. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous waste Number(s): D002

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1  
**UN/NA NUMBER:** UN 1950  
**PACKAGING GROUP:** N/A

**AIR SHIPMENT**

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**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1  
**UN/NA NUMBER:** UN 1950  
**PACKAGING GROUP:** N/A

**SHIPPING BY WATER:**

**VESSEL (IMO/IMDG)**  
**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.  
**HAZARD CLASS/DIVISION:** 2.1  
**UN/NA NUMBER:** UN 1950  
**PACKAGING GROUP:** N/A  
**ENVIRONMENTAL HAZARDS WATER:** N/A

### SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Chemical Name: Potassium Hydroxide  
RQ: 1,000 lb Category C

**SARA 311/312 HAZARD CATEGORIES:** Acute Health Hazard.

**SARA 313 REPORTABLE INGREDIENTS:** None

**STATE REGULATIONS:** California Proposition 65: None Potassium hydroxide - Illinois toxic substances disclosure to employee act; Illinois chemical safety act; New York release reporting list; Rhode Island RTK hazardous substances; Pennsylvania RTK; Minnesota; Massachusetts RTK; New Jersey;

Louisiana spill reporting

**INTERNATIONAL REGULATIONS:** WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

**NFPA HEALTH:** 3

**HMIS HEALTH:** 3

**NFPA FLAMMABILITY:** 1

**HMIS FLAMMABILITY:** 1

**NFPA REACTIVITY:** 1

**HMIS REACTIVITY:** 1

**NFPA OTHER:** None

**HMIS PROTECTION:** B

### SECTION XVI - ADDITIONAL INFORMATION

**PREPARATION BY:** Jonathon Jarvis

**DATE PREPARED:** 12/20/2013

**REVISION DATE:** 11/10/2014

N/A = Not Applicable; N/D = Not Determined

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