image supply, inc.

SAFETY DATA SHEET
TOUGH & EASY

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Tough & Easy		
Product Use:	Oven & Grill Cleaner	Phone Number:	(910)738-1166
Company Identification:	image supply, Inc.	D.O.T. Emergency Phone:	Chem-Tel (800)255-3924
	P.O. Box 1108	Date of Preparation:	May 3, 1991
	Lumberton, NC 28360	Revision Date:	January 27, 2015 Rev. No. 2

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

CORROSIVE: Causes Severe skin Burns and eye damage

Precautionary Statement – Prevention
Wear personal protective equipment as required.
Wash thoroughly after handling.
Do not breathe dust or mist.

Precautionary statement - Storage
Store locked up.

Precautionary Statement – Response

Target Organ:	Skin, eyes, gastrointestinal tract
IF ON SKIN:	Remove/Take off immediately all contaminated clothing. Rinse skin with Water
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF SWALLOWED:	Rinse mouth. Do NOT induce vomiting.
IF INHALED:	Remove to fresh air and deep at rest in a position comfortable for breathing.

Precautionary Statement – Disposal
Dispose of contents/container in accordance with local and national regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS#	Wt. %
Potassium Hydroxide	1310-58-3	> 50%

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Section 4: FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for 15 -20 minutes, seek medical attention.
Skin Contact:	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists.
Inhalation:	If difficulty or discomfort in breathing is experienced, remove to fresh air and get medical attention.
Ingestion:	Harmful or fatal if swallowed. Give several glasses of water followed by citrus juice or vinegar. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flammability:	Not flammable by WHMIS/OSHA criteria
Means of Extinction:	
Suitable Extinguishing Media:	Powder, water spray, foam, carbon dioxide.
Products of Combustion:	None
Explosion Data:	
Sensitivity to Mechanical Impact:	Not Available.
Sensitivity of Static Discharge:	Not Available.
Protection of Firefighters:	Containers may explode when heated. Keep up wind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and Deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Absorb large spills with floor dry material (see disposal below). Small spills: Flush with water and pick up with mop or wet vacuum.

Waste Disposal Method: Dispose of in accordance with state or local regulations. EPA Hazardous Waste Classification: Corrosive (pH = 13 on concentrate). Do not dispose of in storm drains or streams.

Section 7: HANDLING AND STORAGE

Handling:
Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:
Keep out of the reach of children. Keep from freezing. Keep container closed. Do not pressure container to close.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ingredient	OSHA-PEL	ACGIH-TLV
Potassium Hydroxide	2mg/CUBIC FT	N/A

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

- **Eye/Face Protection:** Wear eye/face protection. Goggles
- **Hand Protection:** Alkali Resistant Gloves
- **Skin and Body Protection:** Wear suitable protective clothing.
- **Respiratory Protection:** Ventilate to keep air below TLV. A NIOSH approved respirator for organic vapor should be worn if needed to keep level below TLV.

General Hygiene Consideration: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212 Degrees F
Volatile: (% by Volume, 80%)
Evaporation Rate: N/A
Solubility in Water: Complete 13.1-13.3
Appearance and Odor: Viscous, Opaque Liquid, Detergent Odor
Spec. Gravity: (Water=1): 1.05
Melting Point: N/A
Vapor Density: Same as Water
Approx. Product Weight: 10 LBS/GAL

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Acids, Ammonium salts, Amines, Activated Carbon, Cyanides, Reducers, Zinc. May react with Secondary/Tertiary Amines to form Nitrosamines.

Hazardous Decompositions Products: May include, and are not limited to: Carbondioxide, Carbonmonocide, Oxides of Nitrogen

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredients	LD50 (irak)	LC50
Potassium Hydroxide	Not Available	Not Available

Eye: Direct Contact of product with eyes can cause severe irritation and damage.
Skin: Prolonged or repeated contact of product with skin may cause irritation.
Ingestion: Not a normal route of exposure. May cause burns. Harmful: may cause lung damage if swallowed.
Inhalation: Product spray mist or fog may cause irritation to nose, throat and lungs if adequate ventilation is not employed.

EFFECTS OF CHRONIC EXPOSURE

Chronic Effects: Existing Dermatitis may be aggravated by exposure.
Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen*
Potassium Hydroxide	Not Listed

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.
Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.
Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.
Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.
Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.
Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.
Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.
Persistence / Degradability: Not available.
Bioaccumulation / Accumulation: Not available.
Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:
This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = yes; **IMCO =** no; **IATA =** no
Proper shipping name: Potassium Hydroxide
Hazardous waste characteristics:
Ignitability = not applicable; **Corrosivity =** yes; **Reactivity =** not applicable

DOT Classification:
Compounds, Cleaning Liquid (contains Potassium Hydroxide),8, NA1760, PG II

Section 15: REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD:
Unless otherwise specified in Section 3 of this document, this product is not and does not contain any "Hazardous Chemicals", as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Section 16: OTHER INFORMATION

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 and completeness of the information contained herein. Final determination of 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 they are the only hazards that exist.