

# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LIME-OFF LIME SCALE REMOVER  
PRODUCT CODE: B41 (formerly 45515)  
PRODUCT CLASS: BLENDED DETERGENTS AND ACID

RATINGS:  
4-EXTREME  
3 SERIOUS  
2-SIGNIFICANT  
1-SLIGHT  
0-MINIMUM

| HMIS HAZARD RATING:  |   |
|----------------------|---|
| HEALTH               | 1 |
| FLAMMABILITY         | 0 |
| REACTIVITY           | 1 |
| PERSONAL PROTECTION: |   |

## SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: CELLO PROFESSIONAL PRODUCTS  
ADDRESS: 1354 Old Post Road, Havre de Grace, MD 21078  
EMERGENCY PHONE - INFOTRAC 24 HOURS: 800-535-5053  
INFORMATION PHONE: 800-638-4850

REVISED: 7/1/06

## SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

| REPORTABLE COMPONENTS              | CAS NUMBER      | VAPOR PRESSURE<br>mm Hg @ TEMP | WEIGHT<br>PERCENT |
|------------------------------------|-----------------|--------------------------------|-------------------|
| WATER                              | CAS# 7732-18-5  |                                | 50.0-60.0         |
| HYDROCHLORIC ACID<br>TLV/PEL 5 ppm | CAS# 7647-01-1  |                                | 10.0-15.0         |
| AMPHOTERIC SURFACTANT              | CAS# 68919-41-5 |                                | 15.0-20.0         |

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

# Indicates hazardous chemical(s) subject to the reporting requirements of section 312 of Title III and of 40 CFR 370.

## SECTION III - PHYSICAL DATA

BOILING POINT: 212°F  
VAPOR DENSITY: Not Est.  
EVAPORATION RATE: Not Est.  
APPEARANCE: Thin, clear liquid  
pH: 0.5

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.080  
VAPOR PRESSURE: Not Est.  
SOLUBILITY IN WATER: Completely  
ODOR: Pungent acid odor  
VOLATILE : 69%

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None  
FLAMMABLE LIMITS IN AIR BY VOLUME- N/A  
EXTINGUISHING MEDIA: WATER, CO<sub>2</sub>, DRY CHEMICAL and FOAM  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Heated material may liberate toxic and corrosive hydrogen chloride fumes. Wear self contained breathing apparatus.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not established  
EFFECTS OF OVER EXPOSURE: May cause irritation to skin and eyes. May be harmful if swallowed.  
EMERGENCY AND FIRST AID PROCEDURES:  
IF ON SKIN: Immediately remove contaminated shoes and clothing. Flush area with copious amounts of water. If irritation or blistering are apparent get medical aid.  
IF IN EYES: Immediately flush with water for at least 15 minutes. Get medical aid. Prompt action may save sight.  
IF INGESTED: Do not induce vomiting. Immediately give milk, egg white, antacid, gelatin, or if none of these are available give water. Get immediate medical aid.  
INHALATION: Remove to fresh air. Get medical aid if necessary.  
CONDITIONS AGGRAVATED BY EXPOSURE: None known  
LISTED CARCINOGEN, MUTAGEN, TERATOGEN (INGREDIENT, SOURCE, AMOUNT): NONE

## SECTION VI - REACTIVITY DATA

STABILITY: STABLE  
CONDITIONS TO AVOID: NONE  
INCOMPATIBILITY: Will react with alkalis  
HAZARDOUS DECOMPOSITION PRODUCTS: Mostly heat and water.  
HAZARDOUS POLYMERIZATION: Will not occur

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: For small spills, rinse to local drains. For larger spills, recontianerize by mopping, wet vacuum, or by using a suitable absorbent. Rinse remaining material to drains.  
WASTE DISPOSAL METHOD: Follow local, state, and federal guidelines.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required  
VENTILATION: Local  
PROTECTIVE GLOVES: Latex or rubber gloves required  
EYE PROTECTION: Safety glasses or goggles required  
OTHER PROTECTIVE EQUIPMENT: Rubber boots required if working in standing solutions.  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store between 34° and 120°F.

OTHER PRECAUTIONS: Keep out of reach of children.  
FOR SALE TO, USE AND STORAGE BY SERVICE PERSONNEL ONLY.

## SECTION IX - REGULATORY INFORMATION

ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE US TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY.

This product is a DOT hazardous material. BILL of LADING (gallons and drums): "Corrosive liquids, n.o.s. (contains Hydrochloric and phosphoric acids), 8, UN1760, II"

The ingredients from Section II are subject to the following reporting requirements:

MA - The Massachusetts Hazardous Substance List NJ - The New Jersey Right-to-Know Hazardous Substance List PA - The Pennsylvania Hazardous Substance List