

## STAR-TECH™ HEAVY DUTY FLOOR STRIPPER

*Heavy-duty, non-ammoniated, butyl-based stripper which efficiently removes years of burnished floor coating and dirt build-up*

### FEATURES

- Works most effectively in warm water
- Emulsifies floor coating fast
- Labor savings – fewer passes needed to remove floor coating
- Excellent results on burnished floors



### RECOMMENDED FLOOR SURFACES

All resilient tile flooring, linoleum and most types of terrazzo, marble and quarry tile.

Not recommended for asphalt or rubber tile flooring.

**NOTE:** Test floor for color fastness in an inconspicuous area.

### PRODUCT DATA

Description:	Non-ammoniated, heavy-duty stripper
Appearance:	Red clear liquid
Fragrance:	Slight lemon
Viscosity (Brookfield):	<5 centipoise @ 68°F (20°C)
Flash Point:	>158°F (70°C) ASTM method D56
Shelf Life:	2 years, ASTM D1791-93 (1998)
Density:	8.4 lb per gal at 68°F 1.01 kg per liter at 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)

### PRECAUTIONS

Keep out of reach of children. Keep container sealed when not in use. Keep from freezing. Combustible. Gloves and safety glasses recommended. Floor may become very slippery. Wear appropriate non-slip safety shoes. This product should not be used in contact with wood, rubber, paint surfaces or on asphalt or asbestos tile. Please read the Material Safety Data Sheet before handling this product.

### ORDERING INFORMATION

Product #514FS: 2 x 2.5 gallon per case (2 x 9.5 liter)

### DIRECTIONS FOR USE:

1. Mix Star-Tech Heavy Duty Stripper in mop bucket or HydroStar Stripper Applicator per the following dilution ratios:  
**For sealer and coating removal:**  
1:4 32 US oz per gallon warm water  
(1,25 liters per 5 liters warm water)  
**For linoleum application:**  
1:8 16 US oz per gallon warm water  
(0,62 liter per 5 liters warm water)  
**In California:**  
Light or Medium Strippng 1:9 14.2 US oz per gallon warm water  
Heavy Strippng 1:4 32 US oz per gallon warm water
2. Apply solution liberally to the floor and allow to soak for 15 minutes. Do not allow stripper solution to dry on floor.
3. Scrub floor with recommended Amano Pioneer Eclipse stripping machine and pads or brushes.
4. Pick up dirty solution with StripVac Stripper Recovery Vacuum, autoscrubber or wet vac.
5. Use a clean mop or autoscrubber to rinse floor twice with an Amano Pioneer Eclipse neutral cleaner or neutralizer following label directions.
6. Rinse floor again with clean cold water. Allow to dry thoroughly before applying sealer or coating.

# STAR-TECH HEAVY DUTY STRIPPER

**LAST REVISION DATE:** 11/26/07  
**MANUFACTURER:** Amano Pioneer Eclipse® Corp.  
 Sparta, NC 28675 Phone: 1-336-372-8080  
**FOR CHEMICAL EMERGENCY:** Spill, Leak, Fire,  
 Exposure or Accident **CALL CHEMTREC - Day or  
 Night 1-800-424-9300** Toll Free in the  
 Continental US **483-7616** in DISTRICT OF  
 COLUMBIA. For calls originating outside the US:  
 Call Collect **1-202-483-7616** Washington, DC.

**SECTION I: GENERAL INFORMATION**

**PRODUCT NAME:** Star-Tech™ Heavy Duty Stripper  
**PRODUCT #:** 514  
**PRODUCT TYPE:** Non-ammoniated heavy  
 duty stripper  
**PRECAUTIONS:** Combustible. Possible skin and  
 eye irritant. Keep container sealed when not in  
 use. Keep out of reach of children.  
**HEALTH:** 2  
**FLAMMABILITY:** 2  
**REACTIVITY:** 0  
**NFPA HAZARD RATINGS**

4-EXTREME 3-HIGH 2-MODERATE  
 1-SLIGHT 0-INSIGNIFICANT



**SECTION II: HAZARDOUS INGREDIENTS**

**INGREDIENT:** Monoethanolamine  
**CAS#:** 141-43-5  
**%:** 5-10  
**OSHA PEL:** 3 ppm (TWA)  
**ACGIH TLV:** 6 ppm (STEL) 3 ppm (TWA)  
**LD<sub>50</sub> SPECIES & ROUTE:** 1.2 g/kg rat, oral

**INGREDIENT:** \*Ethylene Glycol Butyl Ether  
**CAS#:** 111-76-2  
**%:** 20-25  
**OSHA PEL:** 50 ppm (skin) (TWA)  
**ACGIH TLV:** 20 ppm (TWA)  
**LD<sub>50</sub> SPECIES & ROUTE:** 0.5 g/kg rat, oral

\* This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

N/E = Not Established, N/L = Not Listed,  
 N/A = Not Applicable

**SECTION III: PHYSICAL/CHEMICAL DATA**

**APPEARANCE:** Red clear liquid  
**PHYSICAL STATE:** Liquid  
**pH:** 12.6 ± 0.5  
**BOILING POINT:** 100°C / 212°F  
**EVAPORATION RATE:** Less than water  
**FREEZING POINT:** 0°C / 32°F  
**VAPOR DENSITY:** Greater than air  
**VOLATILE BY WEIGHT:** 95-97%  
**VAPOR PRESSURE:** Less than water  
**DENSITY:** 8.4 lb per gal @ 68°F  
 1.01 kg per liter @ 20°C  
**SOLUBILITY IN WATER:** Miscible

**SECTION IV: FIRE AND EXPLOSION DATA**

**FLASH POINT:** > 158°F (70°C) ASTM method D56  
**EXPLOSIVE LIMITS:**  
 LOWER: N/E UPPER: N/E  
**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry  
 chemical, alcohol-type or universal type foams  
**SPECIAL FIRE FIGHTING PROCEDURES:** Do not  
 spray a solid stream of water or foam directly  
 into hot liquid. This may cause frothing.  
 Firefighters should wear NIOSH approved  
 breathing apparatus.  
**HAZARDOUS COMBUSTIBLE PRODUCTS:** N/A  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
 Materials can splatter above 100°C / 212°F.

**SECTION V: REACTIVITY DATA**

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**INCOMPATIBILITY (MATERIALS TO AVOID):**  
 Strong acids and strong oxidizing agents  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
 Carbon monoxide, carbon dioxide and  
 nitrogen oxides  
**REACTIVITY CONDITIONS:** None

**SECTION VI: HEALTH HAZARD DATA**

**EYES:** May cause severe burns or possible  
 corneal damage. For eye contact, flush with a  
 large amount of water for at least 15 minutes.  
 See a physician immediately.  
**SKIN:** Irritation, reddening or possible damage  
 upon repeated or prolonged contact. For skin  
 contact, wash affected areas with soap and  
 water. Seek medical attention if irritation persists.  
**INHALATION:** Vapor or mist can cause headache,  
 nausea and irritation of the eyes, nose, throat  
 and lungs. For overexposure, move subject to  
 fresh air. Seek medical attention if symptoms  
 persist.  
**INGESTION:** May cause nausea, abdominal  
 discomfort, vomiting, diarrhea. If ingested, give  
 two glasses of water or milk and do not induce  
 vomiting. Remove by endotracheal intervention.  
 Seek medical attention immediately.  
**CHRONIC EFFECTS AND MEDICAL CONDITIONS  
 AGGRAVATED BY OVEREXPOSURE:** Main hazard  
 is due to severe irritant properties of product.  
 Treatment should be directed at the control of  
 symptoms and the clinical condition of  
 the patient.  
**CARCINOGEN:** Non-carcinogenic  
**REPRODUCTIVE EFFECTS:** N/E  
**TERATOGENICITY:** N/E  
**MUTAGENICITY:** N/E  
**THRESHOLD LIMIT VALUE:** See Section II.

**SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES**

**SMALL SPILLS:** Absorb spill with inert material  
 (e.g. sand, earth) and dispose of as waste  
 material in accordance with local, state and  
 federal regulations.  
**LARGE SPILLS:** Keep spectators away. Floors  
 may be slippery; use care to avoid falling. Dike  
 and contain spill with inert material (e.g. sand,  
 earth). Transfer liquid to containers for recovery

or disposal and solid diking material to separate  
 containers for disposal. Keep spills and cleaning  
 runoff out of sewers and open bodies of water.  
**WASTE DISPOSAL:** Landfill or incinerate the  
 contaminated solids and diking material  
 according to local, state and federal regulations  
 concerning disposal of hazardous materials.  
 Non-salvageable liquid should be drummed and  
 turned over to a licensed hazardous waste  
 disposal facility.

**SECTION VIII: SPECIAL PROTECTION**

**EYE PROTECTION:** Chemical splash goggles  
 (ANSI Z87.1-1989 or approved equivalent)  
**RESPIRATORY PROTECTION:** None required when  
 permissible airborne concentrations are not  
 exceeded. In emergency, use approved positive  
 pressure self-contained breathing device.  
**VENTILATION:** Mechanical local exhaust  
 ventilation at point of contamination release  
**OTHER PROTECTIVE EQUIPMENT:** As required by  
 employer code. Rubber boots and chemical  
 resistant gloves recommended.

**SECTION IX: SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:**  
 Storage temperature (MAX. 60°C / 140°F)  
 (MIN. 1°C / 34°F).  
**OTHER PRECAUTIONS:** Keep from freezing.

**SECTION X: ADDITIONAL INFORMATION**

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This MSDS has been provided to you in accordance  
 with the OSHA HAZARD COMMUNICATION STANDARD  
 (29CFR1910.1200).

\*\*\*IMPORTANT SAFETY INFORMATION  
 DO NOT DISCARD\*\*\*  
 \*\*PLEASE ROUTE TO COMPANY SAFETY OFFICER\*\*

