

STAIN AWAY

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| MATERIAL SAFETY DATA SHEET | | | |
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| SECTION 1 - PRODUCT SOURCE AND IDENTITY | | | |
| SUPPLIER'S NAME & ADDRESS Arrow Chemical Co. 2217 Border Avenue Torrance, CA 90501 | | PRODUCT DESCRIPTION NAME: STAIN AWAY PURPOSE: Metal and scale deactivator and eliminator Proprietary Formula Code: ARO_SA | DATE OF ISSUE: JULY 8, 1996 |
| EMERGENCY TELEPHONE NO. | 800-424-9300 | PRODUCT INFORMATION (BUS HOURS) | 310-320-6246 |
| SECTION 2 - SHIPPING CLASSIFICATION | | | |
| PROPER SHIPPING NAME, HAZARD CLASS, UN/NA NUMBER, PACKAGING GROUP, EMERGENCY RESPONSE GUIDE NUMBER APPROPRIATE FOR NON-BULK, LAND SHIPMENT. | | | |
| Corrosive liquid, acidic, organic, n.o.s., Class 8, UN 3265, PG III (Contains 1-Hydroxyethylidene-1,1-diphosphonic Acid) | | | |
| LABELS REQ'D: | | CORROSIVE | |
| QUALIFIES FOR "CONSUMER COMMODITY" ORM-D: 172.154, 1 gallon, 66# max gross | | | |
| REPORTABLE QUANTITY INFORMATION: None | | | |
| SECTION 3 - SAFETY RATINGS AND HAZARDOUS INGREDIENT INFORMATION | | | |
| REPORTING REQUIRED BY TITLE III SEC 313, 40 CFR 372 (*), 29 CFR 1910.1200 EXPOSURE LIMIT VALUES | | | |
| CAS# | 313 | MATERIAL OR COMPONENT | % RQ# TWA OTHER/REMARKS |
| 2809-21-4 | No | 1-Hydroxyethylidene-1,1-diphosphonic Acid | <10%None Not established |
| No components are listed in "THRESHOLD LIMIT VALUES AND BIOLOGICAL EXPOSURE INDICES FOR 1995-96" from ACGIH except as listed above. Components listed in TITLE III SEC 313 are indicated by "Yes" above. | | | |
| EMERGENCY OVERVIEW: Acid material. Observe safety precautions outlined herein. | | | |
| HMIS HAZARD RATINGS: HEALTH 1 FIRE 0 INSTABILITY 0 OTHER NA | | | |
| NFPA HAZARD RATINGS: HEALTH 1 FLAMMABILITY 0 REACTIVITY 1 SPECIAL NA | | | |
| HAZARD RATINGS: LEAST: 0 SLIGHT: 1 MODERATE: 2 HIGH: 3 EXTREME: 4 | | | |
| THRESHOLD LIMIT VALUE: Not established on product. | | | |
| SARA | Section 302 | NONE | U.S. FEDERAL REGULATIONS: |
| TITLE III | Section 311/312 | NONE | TSCA STATUS: All ingredients listed. |
| | Section 313 | See above | CERCLA REPORTABLE QUANTITY: NONE |
| SECTION 4 - PHYSICAL AND CHEMICAL PROPERTIES | | | |
| APPEARANCE: | Colorless-tan liquid | FLASH POINT deg F (CC): | None |
| ODOR: | Acrid | INITIAL BOILING POINT deg C: | 100°C+/- |
| SPECIFIC GRAVITY: | >1.0 | VAPOR PRESSURE 20 deg C: | NA |
| pH REACTION: | Acid | FREEZING POINT deg F: | NA |
| % PHOSPHOROUS: | 3.0 | SOLUBILITY IN WATER: | 100% |
| REPRODUCTIVE IMPLICATIONS: | | None | |
| INGREDIENT ON CANCER LISTS: | | None | |

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SECTION 5 - SAFE HANDLING AND STORAGE**GENERAL:**

Avoid creating mist or aerosol. Maintain good housekeeping practices.

PROTECTIVE EQUIPMENT**EYES:** Safety glasses or goggles should be worn if there is possibility of eye contact.**SKIN:** Impermeable gloves such as rubber, PVC or neoprene are recommended.**RESPIRATORY PROTECTION:** None normally required. If risk of inhalation occurs, select and use equipment according to OSHA/NIOSH guidelines for acid mists.**VENTILATION:** A well ventilated work environment is recommended. Local exhaust as needed.**OTHER:** Water source and eyewash should be located close to where the product is handled.**SECTION 6- HEALTH SAFETY DATA****EFFECTS OF CHRONIC OVER EXPOSURE:****EYES:** Can cause severe irritation and possibly permanent damage.**SKIN:** Can cause irritation from acid burns.**INHALATION:** Mists may be quite irritating, and dangerous.**INGESTION:** Not a likely source of exposure. Dilute with milk or water.**SECTION 7 - PHYSICAL STABILITY AND REACTIVITY DATA****EXPLOSIVE LIMITS**

UPPER ND LOWER ND

CHEMICAL stable X

STABILITY unstable

HAZARDOUS may occur

POLYMERIZATION cannot occur X

FLASH POINT: See Sec 4**CONDITIONS TO AVOID:** None known**HAZARDOUS DECOMPOSITION PRODUCTS:**

None known

INCOMPATIBILITY: Caustic chemicals and all metals**SECTION 8- EMERGENCY RESPONSE PROCEDURES****FIRE** **EXTINGUISHING MEDIA:** Use fire fighting media proper to primary source of fire.**UNUSUAL HAZARDS** Can form acid fumes if heated or in a fire.**FIRST AID** **EYES:** Flush with water for at least 15 min. Seek medical attention.**SKIN:** Wash exposed skin with soap and water until gone. Remove affected clothes rinse off product and wash clothes before reuse.**INHALATION:** If affected, remove individual to fresh air, get medical attention at once if there is any discomfort.**INGESTION:** Dilute by giving large amounts of water or milk. Get medical attention. Do not induce vomiting.**SPILLS** **SMALL/LARGE SPILL:** Vacuum or mop up as much as possible for use. Cleanup of spills may require personal protective equipment to prevent liquid contact and protect against acid burns. See Sec 5. Small amounts may be flushed to drain. Comply with federal, state and local regulations on reporting spills.

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