



## MATERIAL SAFETY DATA SHEET

<b>1. PRODUCT IDENTIFICATION</b>		
TRADE NAME :	WASHBAY DESCALER	CHEMICAL ABSTRACT No :
CHEMICAL FAMILY	DETERGENT	NOISH No :
CHEMICAL NAME :	HYDROFLUORIC ACID	HAZCHEM CODE: 6iii
SYNONYMS :		SIN No : 2369
<b>2. COMPOSITION</b>		
HAZARDOUS COMPONENTS :	HYDROFLUORIC ACID 24%, SULPHONIC	
EEC CLASSIFICATION :		
R PHRASES :	R26/27/28	
S PHRASES :	(S1/2), S7/9, S26, S36/37, S45	
<b>3. HAZARDOUS IDENTIFICATION</b>		
MAIN HAZARD :	HYDROFLUORIC	
FLAMMABILITY :	NON-FLAMMABLE	
CHEMICAL HAZARD :	HF	
BIOLOGICAL HAZARD :	NONE	
REPRODUCTIVE HAZARD :	NONE	
EYE EFFECTS :	WILL BURN EYES	
HEALTH EFFECTS :	WILL BURN UNPROTECTED SKIN	
INGESTION EFFECTS :	IRRITATION OF MOUTH, THROAT AND DIGESTIVE TRACT	
INHALATION EFFECTS :	MAY CAUSE IRRITANT TO NOSE, THROAT AND RESPIRATORY TRACT	
CARCINOGENICITY :	NONE	
MUTAGENICITY :	NONE	
NEUROTOXICITY :	NONE	
<b>4. FIRST AID MEASURES</b>		
PRODUCT IN EYES :	FLUSH CONTINUOUSLY WITH WATER FOR 20-30 MINUTES. DO NOT INTERRUPT FLUSHING. SEEK MEDICAL ADVICE. TAKE SPECIAL CARE IF EXPOSED PERSON IS WEARING CONTACT LENSES.	
PRODUCT ON SKIN :	RINSE WITH WATER FOR 15 MINUTES. UNDER RUNNING WATER REMOVE CONTAMINATED CLOTHING, SHOES AND LEATHER GOODS (BELTS, WATCHES ETC.) IF IRRITATION PERSISTS REPEAT FLUSHING. SEEK MEDICAL ATTENTION	
PRODUCT INGESTED :	FLUSH MOUTH WITH WATER AND CONTACT A POISONS INFORMATION CENTRE, DO NOT INDUCE VOMITTING. IMMEDIATE HOSPITAL TREATMENT IS MORE THAN LIKELY NEEDED	
PRODUCT INHALED :	REMOVE FROM EXPOSURE. FIRST AID IS GENERALLY NOT REQUIRED, IF IN DOUBT CONTACT A POISONS INFORMATION CENTRE	
<b>5. FIRE FIGHTING MEASURES</b>		
EXTINGUISHING MEDIA :	NON FLAMMABLE, USE EXTINGUISHING MEDIA SUITED TO BURNING MATERIALS	
SPECIAL HAZARDS :	MAY PRODUCE HYDROGEN GAS	
PROTECTIVE CLOTHING :	GOOGLES, GLOVES AND OVERALLS	
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
PERSONAL PRECAUTIONS :	PRODUCT WILL DAMAGE CLOTHING	
ENVIRONMENTAL PRECAUTIONS :	PRODUCT MAY CAUSE CHLORINE GAS	
SMALL SPILLS :	WASH AWAY WITH LARGE QUANTITIES OF WATER	
LARGE SPILLS :	PREVENT SPILLAGE FROM ENTERING DRAINS OR	

WATER COURSES AND CONTACT EMERGENCY SERVICES IMMEDIATELY		
<b>7.</b>	<b>HANDLING &amp;</b>	<b>STORAGE</b>
SUITABLE MATERIAL :	HIGH DENSITY POLYETHYLENE CONTAINERS	
HANDLING / STORAGE ::	KEEP EXPOSURE TO THIS PRODUCT TO A MINIMUM AND MINIMISE QUANTITIES KEPT IN WORK AREAS.	
STORE IN A COOL WELL VENTILATED AREA		
<b>8.</b>	<b>EXPOSURE CONTROLS</b>	<b>/ PERSONAL PROTECTION</b>
OCCUPATIONAL EXPOSURE LIMITS :	MIST MAY CAUSE IRRITATION OF THROAT, EYES & SKIN	
ENGINEERING CONTROL MEASURES :	NONE	
PERSONAL PROTECTION :	IMPERMIABLE GLOVES & CHEMICAL FACE SHIELD/ GOGGLES, MASK & ACID RESISTANT OVERALL	
OTHER PROTECTION :	NONE	
<b>9.</b>	<b>PHYSICAL &amp;</b>	<b>CHEMICAL PROPERTIES</b>
APPEARANCE :	CLEAR RED LIQUID	
ODOUR :	ACIDIC	
Ph :	<5	
BOILING POINT :	>100	
MELTING POINT :	N / A	
FLASH POINT :	NONE	
FLAMMABILITY :	NON FLAMMABLE	
AUTO-FLAMMABILITY :	NONE	
EXPLOSIVE PROPERTIES :	NONE	
OXIDIZING PROPERTIES :	NONE	
VAPOUR PRESSURE :	N / A	
DENSITY :	1.03	
SOLUBILITY – WATER :	HIGHLY SOLUBLE	
SOLUBILITY – SOLVENT :	NON SOLUBLE	
SOLUBILITY – COEFFICIENT :	CO-EFFICIENT	
<b>10.</b>	<b>STABILITY AND</b>	<b>REACTIVITY</b>
CONDITIONS TO AVOID :	ENCLOSED SPACES	
INCOMPATIBLE MATERIALS :	METALS, HEAT, SILICONE BEARING MATERIALS.	
HAZARDOUS DECOMPOSITION PRODUCTS :	HF	
<b>11.</b>	<b>TOXICOLOGICAL</b>	<b>INFORMATION</b>
ACUTE TOXICITY :	NO SPECIFIC DATA AVAILABLE	
CHRONIC TOXICITY :	NO SPECIFIC DATA AVAILABLE	
CARCINOGENICITY :	NON CARCINOGENIC	
MUTAGENICITY :	NONE	
NEUROTOXICITY :	NONE	
REPRODUCTIVE HAZARDS :	NONE	
SKIN & EYE CONTACT :	POSSIBLE SKIN SENSITISATION	
<b>12.</b>	<b>ECOLOGICAL</b>	<b>INFORMATION</b>
AQUATIC TOXICITY – FISH :	TOXIC	
AQUATIC TOXICITY – DAPHNIA :	TOXIC	
AQUATIC TOXICITY – ALGAE :	TOXIC	
Biodegradability :	BIODEGRADABLE	
BIO-ACCUMULATION :	WILL NOT OCCUR	
MOBILITY :	PRODUCT WILL DISSOLVE IN WATER	
GERMAN WGK :	N / A	
<b>13.</b>	<b>DISPOSAL</b>	<b>CONSIDERATIONS</b>
DISPOSAL METHODS :	CONTROLLED LANDFILL ACCORDING TO LOCAL REGULATIONS	
DISPOSAL OF PACKAGING :	CONTAINERS SHOULD BE CLEANED & RECYCLED	
<b>14.</b>	<b>TRANSPORTATION</b>	<b>INFORMATION</b>

24% HYDROFLURIC ACID TO BE TRANSPORTED IN CHEMICAL RESISTANT PLASTIC CONTAINERS.  
DRUMS TO BE UPRIGHT & TIGHTLY CLOSED.  
CORROSIVE & TOXIC HAZARD LABELS TO BE DISPLAYED AT ALL TIMES.

15.	REGULATORY	INFORMATION
E E C HAZARD CLASSIFICATION :	IRRITANT / HARMFUL	
RISK PHRASES :	R20,R36,R38	
SAFETY PHRASES :	S2,S24,S25,S26	
NATIONAL LEGISLATION	NONE	

16.	OTHER	INFORMATION
<p>The information submitted in this specification sheet is based on the current knowledge and experience of Green Machine. In view of the many factors that may affect processing and application, this data does not constitute warranty on our part, neither does it relieve processors of the responsibility of carrying out their own tests and experiments nor does it imply any legal binding assurance of certain properties or of suitability for a specific purpose.</p> <p>It is the responsibility of those to whom Green Machine supplies its products to ensure that any proprietary rights and existing laws and legislation be observed. Green Machine shall not be held liable for the misuse of any of the products supplied</p>		