JohnsonDiversey

MATERIAL SAFETY DATA SHEET

Printed: 02/06/2004

I Chemical Product and Company Indentification

Product Name	**FILM AND SCALE REMOVER**
Product Code	**08515280** UPC-A SCC
Manufacturer	**JOHNSONDIVERSEY INC.** **3630 E. KEMPER RD** **CINCINNATI, OH 45241-2046**
Chemical Family	**ACID METAL CLEANER**

Emergency	**(800)831-9889**
Medical(Collect)	**(303)592-1024**
Chemtree	**(800)424-9300**
Date	**08/24/1993**

II Composition/ Information on Ingredients

Chemical Name of Hazardous Ingredient	%	Exposure Limits	Units
HYDROXYACETIC ACID (79-14-1)	**22**	**NONE ESTABLISHED**	
AMMONIUM HYDROGEN FLUORIDE (1341-49-7)	**10**	**TLV 2.5; PEL 2.5**	**MG/M3**

III Hazards Identification

Signs and Symptoms of Exposure

ACUTE: **CAUSES BURNS TO SKIN AND EYES. MISTS CAUSE SEVERE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT, PULMONARY EDEMA. CAUSES BURNS TO DIGESTIVE TRACT. MAY BE FATAL IF SWALLOWED.**

CHRONIC: **MAY CAUSE YELLOWING OF TEETH.**

HMIS: Health **3** Flammability **0** Reactivity **0** Personal Protection **D**

Conditions Aggravated: **SENSITIVE SKIN AND EYES, MAY AGGRAVATE RESPIRATORY DISEASE.**

Carcinogen Info: **NOT CARCINOGENIC** NTP IARC OSHA

Target Organs or System

Routes of Exposure: Inhalation [x] Skin [x] Ingestion [x]

IV First Aid Measures

Inhalation: **REMOVE TO FRESH AIR. IF DIFFICULT BREATHING, GIVE OXYGEN. GET MEDICAL ATTENTION.**

Eyes: **IMMEDIATELY FLUSH THOROUGHLY WITH FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.**

Skin: **IMMEDIATELY. FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES.**

Ingestion: **GIVE MILK OR WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

V Fire Fighting Measures

Fire Control Measures/ Equipment: **WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE GEAR TO PREVENT SKIN CONTACT WITH ACIDIC SOLUTIONS.**

Flammable Property Info

Explosion Info: **NONE**

Extinguishing Media: **CO2, FOAM, DRY CHEMICAL, WATER**

Gases

VI Accidental Measures	Spill and Leak Clean UP Procedures	**DIKE SPILL. VACUUM OR ABSORB WITH CLAY OR SAND. PLACE IN AN APPROPRIATE COVERED CONTAINER. NEUTRALIZE RESIDUE WITH DILUTE ALKALI AND FLUSH TO SANITARY SEWER.** **CERCLA PRODUCT RQ = AMMONIUM HYDROGEN FLUORIDE - 55,556 LBS OR 5,791 GALLONS**
	Environmental Precautions	
VII Handling and Storage	Ventilation Required? **YES**	Instructions **NORMAL AIR DILUTION**
	Safe Storage, Handling and Use Instructions	**DO NOT PRESSURE CONTAINER TO EMPTY. KEEP OUT OF REACH OF CHILDREN. WHEN DILUTING, ADD SLOWLY WITH STIRRING TO AVOID VIOLENT SPLATTERING AND HEAT GENERATION.**
	Imcompatible Materials	
VIII Exposure Controls/ Personal Protection	Protective Gloves	**ACID RESISTANT**
	Eye Protection	**GOGGLES WHEN POURING OR SPLASH HAZARD EXISTS**
	Respiratory Protection	**USE APPROVED CARTRIDGE RESPIRATOR TO MAINTAIN PEL/TLV.**
	Other Protective Clothing Equipment	**ACID RESISTANT CHEMICAL APRON WHEN HANDLING** **SAFETY SHOWER/EYE WASH**
IX Physical and Chemical Properties	Characteristics o of Hazardous Chemcial	
	Vapor Pressure **21.7** MmHg@ **20** °C	Vapor Density(Air=1 **N/A** | pH | Water Solubility **100** %
	Appearance & Odor	**CLEAR AMBER LIQUID; MILD ACIDIC ODOR**
	Boiling Point **216** °F	Melting Point °F | Flammability Limits in Air By Volume: Upper **NONE** Lower **NONE**
	Flash Point **NONE** °F	Auto Ignition **N/A** °F | Oxidizing Properties
	Specific Gravity **1.153**	Volatile by Volume **38** %
	Evaporation Rate(n-Butyl Acetate=1) **1.**	
X Stability and Reactivity	Peroxide, Pyrophoric, Unstable or Water Reactive	**NONE**
	Reactivity and Hazardous Polymerization	**NONE**
	Possible Hazardous Reactions	
	Conditions to Avoid	
	Materials To Avoid	**CONCENTRATED ALKALIS, SOFT METALS, OR CHLORINATED COMPOUNDS**
	Hazardous Decomposition Products	**NITROGEN OXIDES**
XI Toxicological Information		
XII Ecological Information	Possible Effects and Environmental Fate	
	Degradability	
	Aquatic Toxicity	
XIII Disposal Consideration	Method of Disposal, Residues and Safe Handling	**USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER, EMPTY CONTAINER. TRIPLE RINSE CONTAINER WITH WATER, ADD TO OPERATION. REMOVE OR DEFACE CONTAINER LABEL BEFORE SELLING, DISPOSAL, OR RECYCLE. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. MAY BE TOXIC TO FISH OR AQUATIC LIFE.**
	Disposal of Contaminated Material	**NITROGEN OXIDES**
XIV Transport Information	**CONTACT DISTR. DEPT. FOR DESCRIPTION**	
XV-Regulatory Information		
XVI-Other Information		
S.A.R.A. Title III Section 313	**THIS PRODUCT CONTAINS SARA TITLE III, SECTION 313 CHEMICALS:** **AMMONIUM HYDROGEN FLUORIDE (1341-49-7) AT 10%.**	
State Right to Know Information	**CITRIC ACID - CAS #77-92-9** **HYDROXYACETIC ACID - CAS #79-14-1** **AMMONIUM HYDROGEN FLUORIDE - CAS #1341-49-7** **WATER - CAS #7732-18-5** **ALKYL POLYALKOXY GLYCOL - CAS #69227-21-0**	