MATERIAL	SAFE	TY D	ATA	SH	IEE	Т		
SECTION 1-PRO	DUCT AND	COMPAN	Y IDEN	ITIFICA	TION			
PRODUCT NAME: Patton "TERMINATOR"	<u></u>	<u></u>						
GENERAL USE: Truck wash pre-spray & aluminum	brightener						0	
PRODUCT DESCRIPTION: Blue liquid, acrid acid oc	dor						TON	
						INDUST	TRIAL SERVICES	
MANUFACTURER'S NAME		DATE PREP		April 23, 2	2008		Page	1 of 4
Patton Industrial Services ADDRESS (NUMBER, STREET, P.O. BOX)		SUPERSEDES: New Page 10 TELEPHONE NUMBER FOR INFORMATION						
1802 North Hearne		(318) 227-4000						
(CITY, STATE AND ZIP CODE)	COUNTRY	EMERGENC				(050) 000	0500	
Shreveport, LA 71107	USA	Infotrac (80			de USA	(352) 323	-3500	
SECTION	2 - HAZARI	%	· · · · · · · · · · · · ·	A PEL	ACGI	H TWA	SARA	RQ
HAZARDOUS COMPONENTS	CAS #	/0 (by weight)	PPM	MG/M3	PPM	MG/M3	TITLE III	LBS
Hydrofluoric acid (a,b,c,d,e,f)	7664-39-3	2 - 4	3	WG/WO	3 C	WG/WO	Yes	100
	,						100	100

(a,c) See Section 15								
(b) Indicates that the Resource Conservation and Recovery	Act (RCRA) has d	etermined the wa	ste for this	chemical is	listed as h	azardous a	nd must be	handled
according to regulations in 40 CFR 260-281.								
(d) Indicates an Extremely Hazardous Substance, if your fa regulations of 40 CFR 355 and 370 apply, including submiss				e, Threshold	Planning	Quantity (T	PQ) in inve	ntory, the
(e) OSHA regulation (29 CFR 1910.119), monitor and contr		-		Compliance	is triggere	d by specif	ied quantiti	es of
specific chemicals. Minimum threshold quantity for this Highly Hazardous Chemical is 1,000 lbs.								
(f) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.								
SECTION	3 - HAZAR	DS IDENT	IFICAT	ION				
EMERGENCY OVERVIEW	<u></u>	·····		<u> </u>	<u></u>		<u></u>	·····
Toxic, harmful and corrosive to the skin, eyes, nose, mucous membranes, respiratory tract and gastrointestinal tract, or any tissue with which it								
comes in contact. Hazard Symbol- C,T. Risk phrases R 23/24/25, 34								
POTENTIAL HEALTH EFFECTS								
INHALATION: Inhaling HF vapors can seriously dam								
apparent for hours after the initial exposure. Airborne concentrations of 10-15 ppm will irritate the eyes, skin, and respiratory tract; 30 ppm is considered "Immediately Dangerous to Life and Health" (IDLH) and may have irreversible health effects; above 50 ppm, even brief exposure								
may be fatal.	th" (IDLH) and m	ay have irrevers	sible nealti	1 enects; a	bove 50	ppm, ever	i briet exp	osure
SKIN: Corrosive and extremely irritating; may produce	ce severe chemic	al burns which a	are slow ir	healing.	Subcutar	ieous tissu	le may be	
affected, becoming blanched and bloodless. In 20%								
20% HF may cause delayed painful erythema up to 2 concentrations of 2% HF. Delayed burns begin with it					s with siov	w nealing	can occur	even at
EYES: Corrosive; Causes immediate severe burns o					ough irrig	ation with	water, the	re may
be prolonged or permanent visual impairment or total	loss of sight.							
INGESTION: Corrosive. Swallowing hydrofluoric aci	d causes severe	hurns of the m		hrane of t	he mouth	throat e	sonhaque	and the
stomach.					o mouti	., anoat, e	Sopriagus	
CARCINOGENICITY	NTP?	No	IARC MO	NOGRAPHS?	No	OSHA R	EGULATED?	No

MATERIAL SAFETY DATA SHEET						
PRODUCT NAME: Patton "TERMINATOR" April 23, 2008		Page 2 of 4				
	N 4 - FIRST AID MEASURES					
	et immediate medical attention with emphasis on hydrofluoric acid ex	posure. If breathing				
SKIN: Remove contaminated clothing while flushing a reuse; seek immediate medical attention with emphas area.	affected area with drenching shower for 5 minutes. Launder contamin is on hydrofluoric acid exposure. Apply 21/2% Calcium Gluconate oint	ated clothing before ment to contacted				
immediate medical attention with emphasis on hydrofl Gluconate in saline solution.	iately flush eyes for 5 minutes in clear running water while holding ey uoric acid exposure. Irrigate open eyelids with 500 to 1,000 cc's of 1	% Calcium				
	ntacid in water followed by milk or milk of magnesia; DO NOT induce medical attention with emphasis on hydrofluoric acid exposu					
SECTION	5 - FIRE FIGHTING MEASURES					
FLASH POINT (METHOD USED)	FLAMMABLE LIMITS LEL: Not applicable UEL:	Not applicable				
Non-flammable	AUTOIGNITION TEMPERATURE: Not determined NFPA	CLASS: None				
GENERAL HAZARDS: Product is corrosive. Product carbon monoxide.	s of combustion include compounds of carbon, hydrogen, oxygen, an	d fluorine, including				
EXTINGUISHING MEDIA Carbon dioxide, water fog, dry chemical, chemical fo	oam. Do not use solid stream of water.					
	ed fully enclosed self-contained breathing apparatus with plastic wind ntainer rupture due to steam buildup; CAUTION - material is corrosive					
UNUSUAL FIRE AND EXPLOSION HAZARDS Contact with B:C extinguisher powder may produce contact with certain metals.	large amounts of carbon dioxide. Material can generate explosive hy					
HAZARDOUS COMBUSTION PRODUCTS						
Smoke, fumes or vapors, oxides of carbon, fluorine	·					
SECTION 6-A	CCIDENTAL RELEASE MEASURES					
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Caution - Corrosive. Allow only Trained Hazardous Response Personnel in the area. Confine and absorb into approved absorbent; place material into approved containers for disposal; for spills in excess of allowable quantities (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions; refer to SARA Title III, Section 313, 40 CFR 372 for reporting requirements. Do not discharge into lakes, ponds, streams or public waters.						
SECTION	7 - HANDLING AND STORAGE					
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: This product will attack glass, concrete and certain metals. Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children. Refer to 40 CFR 355 & 370 for regulations pertaining to items classified as Threshold Planning Quantities as shown in Section 2, Hazardous Ingredients.						
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION						
ENGINEERING CONTROLS The use of local exhaust ventilation is recommended. Use corrosion-resistant ventilation equipment.						
PERSONAL PROTECTION:						
RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. A chemical cartridge respirator with acid cartridge is recommended. If concentration exceeds capacity of cartridge respirator, a self - contained breathing apparatus is advised. Refer to 29 CFR 1910.134, ANSI Z88.2, or European Standard EN 149 for complete regulations.						
PROTECTIVE GLOVES: Required. Saranex, Barricade, Chemrel, Responder, and Butyl rubber are recommended. Do not use Nitrile Rubber Polyvinyl Alcohol or Polyvinyl Chloride.						
EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.						
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant butyl rubber apron, or other approved chemical resistant equipment should be worn to prevent skin contact. Do not use Nitrile Rubber, Polyvinyl Alcohol or Polyvinyl Chloride. Safety eyewash station nearby.						

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Safety showers and safety eyewash nearby.

MATERIAL SAFETY DATA SHEET							
PRODUCT NAME: Patton "TERMINATOR"				Page 3 of 4			
April 23, 2008	<u>/01/041</u>						
	SICAL AN		AL PROPERTIES				
APPEARANCE AND ODOR	VAPOR DENSITY (AIR = 1)						
Blue liquid, acrid acid odor SPECIFIC GRAVITY (WATER = 1)		> 1 EVAPORATION RATE (Water = 1)					
1.020		< 1	. ,				
SOLUBILITY IN WATER		% VOLATILE (BY WEIGHT)					
Complete	99%						
pH < 1.0	VAPOR PRESSURE 17 mm Hg @ 20° C						
BOILING POINT	FREEZING POINT						
212° F (100° C)		32° F (0° C)					
VISCOSITY		RGANIC COMPOUNDS (VC)C's)				
Like that of water	IA OTADU		ってょってルルナン				
	IU-STABIL		REACTIVITY				
STABILITY UNSTABLE: STABLE:	v		TO AVOID: Extreme temperatur mmable hydrogen gas.	es. Contact with active metals			
INCOMPATIBILITY (MATERIALS TO AVOID): Strong				lass and ceramics.			
	-	-					
HAZARDOUS DECOMPOSITION OR BYPRODUCTS			if handled and stored properly	y. In case of a fire, oxides of			
carbon, hydrocarbons, fumes or vapors, fluorine and s HAZARDOUS POLYMERIZATION MAY OCCUR:	smoke may be p		TO AVOID: None. Non-hazardo	ua andatharmia nalumarization			
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR:	x		oth the liquid and gas phases.	bus endounermic polymenzation			
		OGICAL IN	IFORMATION				
	1	1	LD50 of Ingredient	LC50 of Ingredient			
Hazardous Ingredients	CAS #	EINECS #	Species and Route	Species			
Hydrofluoric acid (a,b,c,d,e,f)	7664-39-3	231-634-8	Not established	1276 / ppm / 1H			
	7004-39-3	231-034-0		Inhalation - rat			
(a,c) See Section 15							
CENTION -			ORMATION				
No data are available on the adverse effects of this m							
chemical composition of this product it is assumed that limited quantities. However, such treatment should be							
this mixture are classified as a Marine Pollutant.			, ,	Ū			
SECTION 1	3 - DISPOS	AI CONSI	DERATIONS				
WASTE DISPOSAL METHOD: Dispose of in accorda				conitony cowor or waterway			
Refer to 40 CFR 260 - 299 for complete waste disposal regulations for corrosive materials containing Hydrofluoric Acid. Consult your local, state, or federal agency before disposing of any chemicals.							
SECTION	14 - TRANS	PORT INF	ORMATION				
PROPER SHIPPING NAME:	Hydrofluoric ac	id, solution (< 60)%)				
	,	.,					
DOT HAZARD CLASS / Pack Group: 8 (6.1) / II IATA HAZARD CLASS / Pack Group: 8 (6.1) / II							
REFERENCE: 49 CFR 173.202, .243 IMDG HAZARD CLASS: 8 (6.1) / II							
UN / NA IDENTIFICATION NUMBER: UN 1790 RID/ADR Dangerous Goods Code: 8 (6.1) / II							
LABEL: CORROSIVE, POISON UN TDG Class / Pack Group: 8 (6.1) / II HAZARD SYMBOLS: C T Hazard Identification Number (HIN): 86							
Note: Transportation information provided is for refe		stomer is urged					
Nations TDG, and WHMIS (Canada) TDG information							
packaging materials and methods of shipping.	-	5	. 5	·			

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Patton "TERMINATOR"

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SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Immediate health

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 5,000 lbs) or greater amounts, according to 40 CFR 302.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: E, D1A, D2A

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

Risk Phrases R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.	SYMBOL(S) REQUIRED FOR LABEL		Safety Phrases S7/9 Keep container tightly closed and in a well ventilated place		
R34 Causes burns.	Corrosive	Toxic	 ventilated place. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.) 		
SECTION Specific toxicity tests have not been conducted on this	N 16 - OTH				

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar p ingredients, technical literature, and/or professional experience.

FLA PHY	HEALTH FLAMMABILITY PHYSICAL HAZARD SONAL PROTECTIVE EQUIPMENT		 * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT Safety Glasses, Gloves, Apror 	2 = MODERATE 3 = HIGH 4 = EXTREME	
REVISION SUMMARY: This MSDS has been revised in the following sections: No changes noted	P.O. Box 686 Seffner, FL 33	ve Data Base, Inc.			
The information contained herein is believed to be accurate but is not warranted to b manufacturer of the product and manufacturers of the components of the product. U applicable and suited to the circumstances of use. Vendor assumes no responsibility reasonable safety procedures are not adhered to as stipulated in the data sheet. Fur of this material even if reasonable safety procedures are followed. Any questions redescribed in Section 1.	lsers are advised to confin y for injury to vendee or th rthermore, vendor assume	m in ad ird pers es no re	vance of need that information is cu ions proximately caused by the mate sponsibility for injury caused by abn	rrent, erial if ormal use	