This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTR	RIBUTO	OR'S INFORMATION				
NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special-0	НМІ	S Rating: Health-2;	Flammabi	lity-3; React	ivity-0; Pers	onal Protection-B
Manufactured For: Hillyard Industries, Inc.	_	T Hazard Classifica		CHEST AND LAND		
Address: 302 N. 4 th Street	Ide	dentity (trade name as used on label):				
Address: St. Joseph, MO 64501				dal Mark Re	emover	
The state of the s			(# HI	L0110154)		
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com	MSE	S Number: A00178	F	Revision- 12		
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300	Date	e Prepared: 05/08/03	3	Pren	ared By: DI	/IB
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	1,000,000	mation Calls: (770)422		1.100	area by. bi	-10
SECTION 1 - MATERIAL IDE			estate the same			
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	IN III IC	CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS INDITION	III LIST	(ppm)	TLV (ppm)	Ref. Source **
TOLUENE		108-88-3	Yes	200	100	d
ACETONE		67-64-1	No	1000	750	d
2-BUTOXYETHANOL		111-76-2	Yes	25 skin	25 skin	d
						-
ISOBUTANE/PROPANE BLEND		75-28-5/74-98-6	No	800/1000	800/1000	d
METHYL ETHYL KETONE		78-93-3	Yes	200	200	d
WARNING: This product contains a chemical or chemicals kn						
to the State of California to cause cancer, birth defects or of	ther					
reproductive harm.						
SECTION 2 - PHYSICAL/O	HEMI	CAL CHARACTERIS	TICS			
Boiling Point: N/A	_	cific Gravity (H2O=1):				
Vapor Pressure: PSIG @ 70°F (Aerosols): Max.60 Vapor Pressure (Non-Aerosols)(mm Hg and Temperature):			erature): N/	Ą		
Vapor Density (Air = 1): N/E	poration Rate (= 1):	N/E			
Solubility in Water: Partial	Wat	ter Reactive: No				
Appearance and Odor: Clear liquid, aromatic solvent odor.						
SECTION 3 - FIRE AND	EXPL	OSION HAZARD DA	TA			
FLAMMABILITY as per USA FLAME PROJECTION TEST	per USA FLAME PROJECTION TEST Auto Ignition Temperature Flammability Limits in Air by % in Volume:					
(aerosols) EXTREMELY FLAMMABLE		N/E	% LEL	: N/E	% UEL	N/E
FLASH POINT AND METHOD USED (non-aerosols): N/A EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.						
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus	_					
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperature			r may rup	ture.		
SECTION 4 - REA						
STABILITY [X] STABLE [] UNSTABLE		ZARDOUS POLYMERIZ			X] WILL NO	T OCCUR
Incompatibility (Mat. to avoid): Acids and strong oxidizers.	Cor	nditions to Avoid: Op	en flame,	welding arcs,	heat, sparks.	
Hazardous Decomposition Products: CO, CO2.						
SECTION 5 - HE						
	STION	[X] SKIN ABSORP	ION [] EYE []	NOT HAZARD	ous
ACUTE EFFECTS: Inhalation: Excessive inhalation of vapors can be harmful and may cause he.	adacha	dizziones senhuvia a	noethotic	offeets and no	anible wasen	alaura ann
Eye Contact: Irritation		n Contact: Irritation	iestrieuc	enects and po	issible uncons	ciousness.
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.	OKI	n contact. initation				
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials	s of this	mixture) May cause c	ardiac abr	normality, liver	abnormalities	s. kidney and/or
lung damage. Lab animals have experienced anemia, liver, kidney, lung, blood				iormanty, nvoi	donomando	o, kidney dilarer
Medical Conditions Generally Aggravated by Exposure: May aggravate ex	isting e	ye, skin, or upper respi	ratory cor	ditions.		
EMERGENCY FIR	_					
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attenti	ion.					
Skin Contact: Wash with soap and water. If irritated, seek medical attention.						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical atter	ntion.					
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water.	Get imr	mediate medical attentio	n.			
SECTION 6 - CONTROL	AND P	ROTECTIVE MEASU	RES			
Respiratory Protection (specify type): If vapor concentration exceeds TLV,	use res	pirator approved by NIC	OSH.			
Protective Gloves: Rubber gloves.	-	Protection: Safety gl	asses rec	ommended.		
Ventilation Requirements: Adequate ventilation to keep vapor concentration	below T	LV.				
Other Protective Clothing & Equipment: None		10				
Hygienic Work Practices: Wash with soap and water before handling food. R						
SECTION 7 - PRECAUTIONS			A STATE OF THE PARTY OF THE PAR			
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable	medium	. Incinerate or landfill a	ccording	to local, state	or Federal reg	gulations. Preven

This MSDS complies with OSHA'S Hazard Commi				OSHA Form 1	74		
		Rating: Health-2;		ity 2: Popoti	with 0: Bore	anal Protection 6	
NFPA Rating: Health-2; Flammability-2; Reactivity-0; Special-0					vity-0, Pers	onal Protection-	
Manufactured For: Hillyard Industries, Inc.		DOT Hazard Classification: ORM-D					
Address: 302 N. 4 th Street	Identity (trade name as used on label):						
Address: St. Joseph, MO 64501		I-Force Gear, Chain & Cable Lubricant (# HIL0110254)					
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com	MSI	OS Number: 352		Revision	- 1		
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300		Prepared: 10/07	/93	Prepa	ared By: D	L/KD	
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	Infor	mation Calls: (770)42	2-2071	10:			
SECTION 1 - MATERIAL ID	DENTIFIC	ATION AND INFOR	RMATION				
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source *	
PETROLEUM DISTILLATE		64742-47-8	No	100	100	d	
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800	d	
		74-98-6	No	1000	1000	d	
DETROI FUN OU NIVIUSE			-				
PETROLEUM OIL MIXTURE		8002-05-9	No	5mg/M3 TWA for oil mist	5mg/M3 TWA for oil mist	d	
CECTION A PUNCION	CUENC	AL CHARACTER	STICS				
SECTION 2 - PHYSICAL				hata Octivis o	00		
Boiling Point: N/A		cific Gravity (H2O=1)					
Vapor Pressure: PSIG @ 70°F (Aerosols): Max. 60	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A						
Vapor Density (Air = 1): N/E	Evaporation Rate (= 1): N/E						
Solubility in Water: Insoluble	Wate	er Reactive: No					
Appearance and Odor: Silver color with aliphatic solvent odor.	ID EVID (
SECTION 3 - FIRE AN							
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) FLAMMABLE	Auto Igr	ition Temperature N/E	The state of the state of	nability Limits .: N/E	in Air by % % UEL		
FLASH POINT AND METHOD USED (non-aerosols): N/A	EXT	NGUISHER MEDIA:					
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing appara	7 7000						
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperat	The state of the s	130°F or the contain	er may rup	ture.			
		HAZARD DATA					
STABILITY [X] STABLE [] UNSTABLE		ARDOUS POLYMERIZ	ATION [] WILL [X] WILL NO	T OCCUR	
Incompatibility (Mat. to avoid): Strong oxidizing agents.		ditions to Avoid: Op		-		OCCOR	
Hazardous Decomposition Products: CO, CO2, and various hydrocarbo		ditions to Avoid. Of	ren name,	welding arcs,	ileat, sparks.		
		HAZARD DATA					
		[] SKIN ABSORPT	ION []	EYE []N	OT HAZARDO	OUS	
ACUTE EFFECTS	OLUTION.	1 TOTAL ADDOLL	1014 []	LIC []II	OT HAZARDI	505	
Inhalation: Excessive inhalation of vapors can be harmful and may cause h	headache,	dizziness, asphyxia, a	nesthetic	effects and po	ssible uncons	ciousness.	
Eye Contact: Mild irritation.		Contact: Mild irritati					
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.			2001,000				
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materidamage.	ials of this	mixture) May cause e	levated ca	rboxyhemoglo	bin levels, ey	e damage, lung	
Medical Conditions Generally Aggravated by Exposure: May aggravate			iratory cor	ditions.			
EMERGENCY F							
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical atte							
Skin Contact: Wash with soap and water. If irritated, seek medical attention							
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical at	ttention.						
ngestion: DO NOT INDUCE VOMITING. Drink two large glasses of water	r. Get imm	ediate medical attenti	on.				
SECTION 6 - CONTROL	L AND PE	ROTECTIVE MEASI	JRES				
Respiratory Protection (specify type): If vapor concentration exceeds TLV				of Mines for o	rganic vapor		
Protective Gloves: Neoprene, if skin easily irritated.		Protection: Safety g					
Ventilation Requirements: Adequate ventilation to keep vapor concentration							
Other Protective Clothing & Equipment: None	741						
Hygienic Work Practices: Wash with soap and water before handling food.	. Remove o	ontaminated clothing					
SECTION 7 - PRECAUTIO			ND USF				
Stens To Be Taken If Material Is Spilled Or Released: Absorb with suitab				to local state		1-11 BO NG	

iteps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local state or federal consistence. DO NO

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

This MSDS compiles with OSHA'S Hazard Commun	neation 3	dandard 29 CFR 1910	1200 and	OSTIA FOITH I	1 7		
IDENTITY AND DIST	RIBUT	OR'S INFORMATIO	N				
NFPA Rating: Health-1; Flammability-1; Reactivity-0; Special-0	HMIS Rating: Health-1; Flammability-1; Reactivity-0; Personal Protection-						
Manufactured For: Hillyard Industries, Inc.	DO	T Hazard Classific	ation:	DRM-D			
Address: 302 N. 4 th Street	lde	ntity (trade name as	used on lab	oel):			
Address: St. Joseph, MO 64501		I-Force	Battery	Cleaner &	Protector		
			(# H	L0110454)			
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com	n MSDS Number: A00710 Revision- 7						
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300	Dat	e Prepared: 10/06/	93	Prepa	ared By: ES	S/KD	
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	1 2 2 2	mation Calls: (770)42					
SECTION 1 - MATERIAL ID	ENTIFIC	CATION AND INFO	RMATION	1			
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen	
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		Operand Attendance	III LIST	(ppm)	TLV (ppm)	Ref. Source **	
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800	d	
		74-98-6	No	1000	1000	d	
	_		-				
SECTION 2 - PHYSICAL							
Boiling Point: N/A		cific Gravity (H2O=1)					
Vapor Pressure: PSIG @ 70°F (Aerosols): Max. 60	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A						
Vapor Density (Air = 1): N/E	Evaporation Rate (= 1): N/E						
Solubility in Water: Complete	Wat	er Reactive: No					
Appearance and Odor: Bright red foamy spray with slight amine odor.	D EVDI	OCIONILIA ZADO D	ATA				
SECTION 3 - FIRE AN							
	Auto Igi	nition Temperature		nability Limits			
(aerosols) NON-FLAMMABLE		N/E		: N/E	% UEL	: N/E	
FLASH POINT AND METHOD USED (non-aerosols): N/A		INGUISHER MEDIA:	Foam, dry	chemical, carl	oon dioxide.		
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparat		10015 11 1.1		and the same of th	-		
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperate			ner may ru	pture.			
		Y HAZARD DATA	ATION I		V 1 1101 1 110	T 000110	
STABILITY [X] STABLE [] UNSTABLE		ARDOUS POLYMERIZ			X] WILL NO	T OCCUR	
Incompatibility (Mat. to avoid): Acids & strong oxidizers.	Con	ditions to Avoid: Op	en name,	neat, sparks.			
Hazardous Decomposition Products: CO, CO2 & oxides of nitrogen.	EALTH	UAZADO DATA					
		HAZARD DATA	TION I	1 EVE / 11	107 1147486	0110	
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] ING ACUTE EFFECTS	ESTION	[] SKIN ABSORP	HON [] EYE [] 1	NOT HAZARD	1005	
Inhalation: Excessive inhalation of vapors can be harmful and may cause to	neadach	dizziness asnhvyja	anesthetic	effects and r	nesible unco	neciouenaee	
Eye Contact: Possible mild irritation.		Contact: Mild irritan		onouto and p	oddiolo diloci	iodiodoliodo.	
Ingestion: Possible chemical pneumonitis if aspirated into lungs.	-						
CHRONIC EFFECTS: None known.			1				
Medical Conditions Generally Aggravated by Exposure: May aggravate	existing	eye, skin, or upper res	piratory co	nditions.			
EMERGENCY F	IRST AI	D PROCEDURES				The second	
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical atte	ntion.						
Skin Contact: Wash with soap and water. If irritated, seek medical attention	1.						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical at	tention.						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water	. Get im	mediate medical atten	tion.				
SECTION 6 - CONTROL	AND P	ROTECTIVE MEAS	URES				
Respiratory Protection (specify type): If vapor concentration exceeds TLN	/, use re	spirator approved by l	J.S. Burea	u of Mines for	organic vapo	r.	
Protective Gloves: Rubber, if skin easily irritated.	Eye	Protection: Safety g	lasses rec	ommended.			
Ventilation Requirements: Adequate ventilation to keep vapor concentration	n below	TLV.					
Other Protective Clothing & Equipment: None							
Hygienic Work Practices: Wash with soap and water before handling food	. Remov	e contaminated clothin	9.				
SECTION 7 - PRECAUTION	NS FOR	SAFE HANDLING A	AND USE		18		
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable	le mediu	m. Incinerate or landfi	Il according	to local, state	or federal re	quiations.	

Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910 1200 and OSHA Form 174

This MSDS complies with OSHA'S Hazard Comm			and OSHA F	OIIII 174					
IDENTITY AND DIS	TRIBUTOR'S INFORMA	ATION							
NFPA Rating: Health-1; Flammability-3; Reactivity-0; Special-	HMIS Rating: Health-2;	Flammabili	y-3; React	ivity-0; Person	nal Protection-B				
Manufactured For: Hillyard Industries, Inc.	DOT Hazard Classific	cation: O	RM-D						
Address: 302 N. 4th Street	Identity (trade name as	used on lab	el):						
Address: St. Joseph, MO 64501				m Grease					
	(# HIL0110554)								
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com									
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300	Date Prepared: 11/16/	/00	Prepa	ared By: KD/	IB .				
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	Information Calls: (770) 42	22-2071		YV.					
SECTION 1 - MATERIAL II	ENTIFICATION AND IN	VFORMATI	ON						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	CAS Number SARA OSHA PEL ACGIH C								
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		III LIST	(ppm)	TLV (ppm)	Ref. Source **				
HEXANE	110-54-3	Yes	50	50	d				
LITHIUM GREASE	7620-77-1	No	NE	N/E	d				
ISOBUTANE	75-28-5	No	800	800	d				
PROPANE	74-98-6	No	1000	1000	d				
SECTION 2 - PHYSICAL	CHEMICAL CHARACT	TERISTICS	3						
Boiling Point: N/A	Specific Gravity (H2O=1)			78					
Vapor Pressure: PSIG @ 70°F (Aerosols): 46 psig	Vapor Pressure (Non-Aei	rosols)(mm l	Hg and Temp	perature): N/A					
Vapor Density (Air = 1): N/E	Evaporation Rate (= 1):	N/E						
Solubility in Water: Nil	ter: Nil Water Reactive: No								
Appearance and Odor: White with solvent odor.	Appearance and Odor: White with solvent odor.								
SECTION 3 - FIRE AN	ND EXPLOSION HAZAR								
FLAMMABILITY as per USA FLAME PROJECTION TEST Auto Ignition Temperature Flammability Limits in Air by % in Volume:									
(aerosols) EXTREMELY FLAMMABLE N/E % LEL: N/E % UEL: N/E									
FLASH POINT AND METHOD USED (non-aerosols): N/A SPECIAL FIRE FIGHTING PROCEDURES: Use water fog to cool containers to									
EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.	prevent rupturing and burs	Colored Colore							
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatu			rupture. Prov	ide shielding to	protect personnel.				
	ACTIVITY HAZARD DA								
STABILITY [X] STABLE [] UNSTABLE	HAZARDOUS POLYM								
Incompatibility (Mat. to avoid): Oxygen & oxidants.	Conditions to Avoid	: Open fla	me, weldin	g arcs, heat,	sparks.				
Hazardous Decomposition Products: Carbon dioxide, carbon i				(0					
SECTION 5 - H	HEALTH HAZARD DATA	A							
PRIMARY ROUTES OF ENTRY: [] INHALATION [] INC	SESTION [] SKIN ABS	SORPTION	[X]EYE	[] NOT H.	AZARDOUS				
ACUTE EFFECTS									
Inhalation: Can cause headaches, dizziness.									
Eye Contact: Irritation	Skin Contact: Can ca	ause skin d	efatting.						
Ingestion: Possible chemical pneumonitis if aspirated into lungs.									
CHRONIC EFFECTS: None known.									
Medical Conditions Generally Aggravated by Exposure: Ast	hma.								
	IRST AID PROCEDURE	S							
Eye Contact: Flush with water for 15 minutes. If irritated, seek me	dical attention								
Skin Contact: Wash with soap and water. If irritated, seek medica									
Inhalation: Remove to fresh air. Resuscitate if necessary. Get me									
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses		te medical	attention						
SECTION 6 - CONTRO			attention.						
	L AND PROTECTIVE MI	LASUKES							
Respiratory Protection (specify type): Not normally needed.	E D	. 6 1							
Protective Gloves: Solvent resistant.	Eye Protection: Safe	ety glasses	5.						
Ventilation Requirements: Normal room ventilation.					1000000				
Other Protective Clothing & Equipment: None									
Hygienic Work Practices: Wash with soap and water after cont									
SECTION 7 - PRECAUTIO	NS FOR SAFE HANDLIN	NG AND US	SE						

Steps To Be Taken If Material Is Spilled Or Released: Cover with absorbent material and sweep up. Wash area to prevent slipping.

Incinerate or landfill according to local, state or federal regulations.

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

CTDIDLITA	DIC INICODMATIO	M				
	OR'S INFORMATIO S Rating: Health-2;		ty-3. Reacti	vity_0. Pers	onal Protection-F	
				vity-o, Fels	onal Frotection-c	
ldei						
	(# HIL0110654)					
MSI	DS Number: A00	325	Revi	sion- 9		
	e Prepared: 08/22/0)1	Prepa	red By: ES	/KD/RC	
110000		DESCRIPTION OF THE PROPERTY OF				
DENTIFIC	ATION AND INFO					
	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **	
	110-54-3	Yes	50	50	d	
	63148-62-9	No	N/E	N/E	d	
	110-82-7	Yes	300	300	d	
		No	800	800	d	
		-			d	
L/CHEMIC						
			rate Only = 0.	695		
					A	
Evaporation Rate (= 1): N/E						
Wate	er Reactive: No					
ND EXPLO	OSION HAZARD DA	ATA				
			ability Limits	s in Air by %	in Volume:	
	N/E	% LEL	: N/E	% UEL	: N/E	
10000000						
pers	onnel.					
tures above	130°F or the contain	er may rupt	ure.			
EACTIVITY	Y HAZARD DATA					
HAZ	ARDOUS POLYMERI	ZATION [] WILL [X] WILL NO	T OCCUR	
Con	ditions to Avoid: O	pen flame, v	welding arcs,	heat, sparks.		
HEALTH I	HAZARD DATA					
NGESTION	[X] SKIN ABSORP	TION []	EYE []N	IOT HAZARD	ous	
				unconscious	ness or	
Skin	Contact: Irritation d	ue to defatti	ing of skin.			
				cause nerve	damage.	
		piratory con	ditions.			
	PROCEDURES					
tention.						
on.						
attention.						
er. Get imm	nediate medical attent					
er. Get imm DL AND PF	ROTECTIVE MEAS	URES	-141			
er. Get imm DL AND PF LV, use resp	ROTECTIVE MEAS pirator approved by N	URES IOSH in a p		ure mode.		
er. Get imm DL AND PF LV, use resp Eye	Protection: Safety	URES IOSH in a p		ure mode.		
er. Get imm DL AND PF LV, use resp	Protection: Safety	URES IOSH in a p		ure mode.		
er. Get imm DL AND PF LV, use resp Eye ion below TI	Protection: Safety	URES IOSH in a p		ure mode.		
er. Get imm DL AND PF LV, use resp Eye ion below Ti d.	Protection: Safety	URES IOSH in a p glasses rec		ure mode.		
	L/CHEMIC Spering Evaluation Water Spering Evaluation L/CHEMIC Spering Evaluation L/CHEMIC Auto Igr Water Spering	DOT Hazard Classification in the control of the con	DOT Hazard Classification: Classification: Classification: Classification: Classification: Force Sil (# HI MSDS Number: A00325 Date Prepared: 08/22/01 Information Calls: (770)422-2071 DENTIFICATION AND INFORMATION CAS Number SARA III LIST 110-54-3 Yes 63148-62-9 No 110-82-7 Yes 75-28-5 No 74-98-6 No L/CHEMICAL CHARACTERISTICS Specific Gravity (H2O=1): Concent Vapor Pressure (Non-Aerosols)(mm Evaporation Rate (= 1): Water Reactive: No ND EXPLOSION HAZARD DATA Auto Ignition Temperature N/E SPECIAL FIRE FIGHTING PROCEDI Use water fog to prevent rupturing & personnel. tures above 130°F or the container may rupt EACTIVITY HAZARD DATA HAZARDOUS POLYMERIZATION [Conditions to Avoid: Open flame, of the contact of the	DOT Hazard Classification: ORM-D Identity (trade name as used on label): I-Force Silicone Lubic (# HIL0110654) MSDS Number: A00325 Revi Date Prepared: 08/22/01 Pre	DOT Hazard Classification: ORM-D Identity (trade name as used on label): I-Force Silicone Lubricant (# HIL0110654) MSDS Number: A00325 Revision- 9 Date Prepared: 08/22/01 Prepared By: ES Date Prepared: 08/22/01 Prepared By: ES Prepared: 08/22/01 Prepared By: ES Date Prepared: 08/22/01 Prepared: 08/2	

Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

FLUSH TO SEWER. CAUTION: Silicone makes surfaces slippery.

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

This MSDS complies with OSHA'S Hazard Com				OSHA FOIII I	14		
	ISTRIBL	JTOR'S INFORMATION	Flammahi	lity-3: React	wity-A: Pers	onal Protection-B	
NFPA Rating: Health-1; Flammability-3; Reactivity-0; Special-		HMIS Rating: Health-1; Flammability-3; Reactivity-0; Personal Protection DOT Hazard Classification: ORM-D					
Manufactured For: Hillyard Industries, Inc. Address: 302 N. 4 th Street							
	ľ	Identity (trade name as used on label): I-Force Red Grease					
Address: St. Joseph, MO 64501		(# HIL0110754)					
Di 1040) 222 4224 aut 2225 as http://www.billyord.co	m 8	MSDS Number: A00727 Revision- 10					
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.co		Date Prepared: 06/06/			red By: AF	I/IR	
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300		nformation Calls: (770) 4		гтера	ileu by. Ai	1/10	
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA SECTION 1 - MATERIAL							
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	IDENTI	CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen	
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	III LIST	(ppm)	TLV (ppm)	Ref. Source **	
PETROLEUM DISTILLATE	8002-05-9	No	500	500	d		
ISOBUTANE		75-28-5	No	800	800	d	
PROPANE		74-98-6	No	1000	1000	d	
HEPTANE		142-82-5	No	500	500	d	
ACETONE		67-64-1	No	1000	750	d	
PARAFFINIC PETROLEUM DISTILLATE			No	1000	N/E	d	
PARAFFINIC PETROLEOM DISTILLATE		64742-47-8	140	100	IVE	d	
	*1 (0) (5)	WOAL OULARA OTER	OTION	1			
SECTION 2 - PHYSIC				tests Oaks a	04		
Boiling Point: N/A		Specific Gravity (H2O=1)				Λ.	
Vapor Pressure: PSIG @ 70°F (Aerosols): 25-46 psig Vapor Density (Air = 1): ND		Vapor Pressure (Non-Aer Evaporation Rate (= 1):		perature): N/	4	
Solubility in Water: Nil		Water Reactive: No	- 1).	10/2			
Appearance and Odor: Red color with solvent odor.		Tutor reductives					
	AND EX	PLOSION HAZARD DA	ATA				
FLAMMABILITY as per USA FLAME PROJECTION TEST		Ignition Temperature		nability Limits	s in Air by %	in Volume:	
(aerosols) >18" w/flash back to tip: EXTREMELY FLAMMABLE	71010	N/E % LEL: N/E % UEL: N/E					
FLASH POINT AND METHOD USED (non-aerosols): N/A							
EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.		prevent rupturing and burs					
Unusual Fire & Explosion Hazards: Do not expose aerosols to temper	ratures ab	ove 130°F or the contain	er may rup	ture. Provide :	shielding to pr	otect personnel.	
SECTION 4 - F	REACTIV	VITY HAZARD DATA					
STABILITY [X] STABLE [] UNSTABLE	10	HAZARDOUS POLYM	ERIZATIO	ON [] WI	LL [X]W	LL NOT	
Incompatibility (Mat. to avoid): Oxygen & oxidants.		Conditions to Avoid	Open fl	ame, weldin	g arcs, heat	. sparks.	
Hazardous Decomposition Products: Carbon dioxide, carbo					3 0.00,	, opame.	
		TH HAZARD DATA					
		ON [] SKIN ABSORE	I MOITS	X]EYE [1 NOT HAZ	APPOLIS	
ACUTE EFFECTS	IIVOLOTI	Old [] Oldid ADOOLd	11011	WILL [1110111111	ANDOOG	
Inhalation: Can cause headaches, dizziness.							
	T _e	Chin Contact: Con co	uaa akin	defettine			
Eye Contact: Irritation		Skin Contact: Can ca	use skin	defatting.			
Ingestion: Possible chemical pneumonitis if aspirated into lung	S.						
CHRONIC EFFECTS: None known.							
Medical Conditions Generally Aggravated by Exposure:							
		AID PROCEDURES					
Eye Contact: Flush with water for 15 minutes. If irritated, seek	medical	attention.			-		
Skin Contact: Wash with soap and water. If irritated, seek med							
Inhalation: Remove to fresh air. Resuscitate if necessary. Get	t medica	l attention.					
Ingestion: DO NOT INDUCE VOMITING. Drink two large glass	ses of wa	ater. Get immediate m	nedical at	tention.			
SECTION 6 - CONTR	OL AND	PROTECTIVE MEAS	SURES				
Respiratory Protection (specify type): Not normally needed	d. If TLV	is exceeded, use resp	pirator ap	proved by N	IOSH for or	anic vapors.	
Protective Gloves: Solvent resistant.		Eye Protection: Safe					
Ventilation Requirements: Normal room ventilation is sufficie					xhaust prov	ided by	
explosion proof motor is recommended.	verus ak	station sugaranted				-	
Other Protective Clothing & Equipment: None required. E		station suggested.					
Hygienic Work Practices: Wash with soap and water after c			A 5 100 1 1 1	-			
SECTION 7 - PRECAUTI							
Steps To Be Taken If Material Is Spilled Or Released: Cou Incinerate or landfill according to local, state or federal regulation		absorbent material and	d sweep	up. Wash ar	ea to prever	nt slipping.	
Waste Disposal Methods: Aerosol cans when vented to atmo Precautions To Be Taken In Handling & Storage: Do not po							
Other Precautions &/or Special Hazards: KEEP OUT OF REA			3. DU 110	c store at ter	iperatures a	150 F.	
Other recautions aron opecial nazarus. NEEP 001 OF REA	HOH OF	OTHEDREN.					

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data O

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910,1200 and OSHA Form 174

This MSDS complies with OSHA'S Hazard Commi			and OdriA F	VIII 117					
	RIBUTOR'S INFORMA	TION		11 0 0	-1 B11 B				
	HMIS Rating: Health-2;			vity-0; Person	al Protection-B				
	DOT Hazard Classific								
	Identity (trade name as								
Address: St. Joseph, MO 64501			rce Safety						
			# HIL01108						
	MSDS Number: A			evision- 14					
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300	Date Prepared: 10/22	97	Prep	ared By: LF/	DL				
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA									
SECTION 1 - MATERIAL ID	ENTIFICATION AND IN	IFORMAT							
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES	CAS Number SARA OSHA PEL ACGIH Car								
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		III LIST	(ppm)	TLV (ppm)	Ref. Source **				
TRICHLOROETHYLENE	79-01-6	Yes	50	50	b				
PERCHLOROETHYLENE	127-18-4	Yes	25	25	a,b				
ACETONE	67-64-1	No	1000	750	d				
CARBON DIOXIDE	124-38-9	No	5000	5000	d				
WARNING: This product contains a chemical or chemicals know	/n								
to the State of California to cause cancer.									
SECTION 2 - PHYSICAL	CHEMICAL CHARACT	FERISTIC	S						
	Specific Gravity (H2O=1)			.60					
Vapor Pressure: PSIG @ 70°F (Aerosols): 85-100	Vapor Pressure (Non-Ae								
Vapor Density (Air = 1): N/E	Evaporation Rate (n-bu	tyl acetate:	= 1): 2.1 (cor	ncentrate only)					
Solubility in Water: Insoluble	Water Reactive: No								
Appearance and Odor: Clear, colorless spray with chlorinated solvent odor.									
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA									
FLAMMABILITY as per USA FLAME PROJECTION TEST Auto	o Ignition Temperature	Flamn	nability Limits	in Air by % in	Volume:				
(aerosols) NON-FLAMMABLE	N/E	% LEL	: N/E	% UEL:	N/E				
FLASH POINT AND METHOD USED (non-aerosols): N/A	EXTINGUISHER MED	IA: Foam	, dry chemic	cal, carbon did	oxide.				
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing									
apparatus.									
Unusual Fire & Explosion Hazards: Do not expose aerosols to temp	peratures above 130°F	or the co	ntainer may	rupture.					
	ACTIVITY HAZARD DA								
STABILITY [X] STABLE [] UNSTABLE HAZARDOUS POLYMERIZATION [] WILL [X]WILL NOT OCCUR									
	Conditions to Avoid								
magnesium, strong oxidizing agents.	Conditions to Avoid	. орон ш	arrio, troiding	g aroo, moat.					
Hazardous Decomposition Products: CO2, CO, HCI, small amounts	s of phospene and chlo	rine							
	EALTH HAZARD DAT								
PRIMARY ROUTES OF ENTRY: [X]INHALATION []ING			ON LIEVE	T I NOT L	HAZARDOUS				
ACUTE EFFECTS:	ESTION [A JONINA	BOUNFIR	JN []ET	E []NOTE	IAZARDOUS				
				- t' ff - t	4 76.1				
Inhalation: Excessive inhalation of vapors can be harmful and may ca	use neadache, dizzine	ss, aspny	xia, anestne	etic enets an	a possible				
unconsciousness.									
	Skin Contact: Irritation	on due to	defatting of s	skin.					
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Naus									
CHRONIC EFFECTS:(Effects due to excessive exposure to the raw ma									
brain damage, cardiac abnormalities. Perchloroethylene has been show	wn to increase the rate	of sponta	neously occ	urring malign	ant tumors in certain				
laboratory rats and mice.									
Medical Conditions Generally Aggravated by Exposure: May agg			per respirato	ry conditions					
	IRST AID PROCEDURE	S							
Eye Contact: Flush with water for 15 minutes. If irritated, seek medica	l attention.								
Skin Contact: Wash with soap and water. If irritated, seek medical att	ention.								
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medica	al attention.								
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of w		nedical att	ention.						
SECTION 6 - CONTROL									
Respiratory Protection (specify type): If vapor concentration exce				Rureau of Min	es for organic vanor				
	Eye Protection: Safe				es for organic vapor.				
Ventilation Requirements: Adequate ventilation to keep vapor cond		ry glasse	3 reconniner	iuou.					
	entration below TEV.								
Other Protective Clothing & Equipment: None	- food Don	-14 1 1	- 41-7						
Hygienic Work Practices: Wash with soap and water before handling			-						
SECTION 7 - PRECAUTION									
Steps To Be Taken If Material Is Spilled Or Released: Absorb with		inerate or	landfill acco	ording to local	, state or Federal				
regulations. Allow to evaporate if small spill. DO NOT FLUSH TO SEWEI									
Waste Disposal Methods: Aerosol cans when vented to atmospheric	c pressure through nor	mal use,	oose no disp	osal hazard.					
Precautions To Be Taken In Handling & Storage: Do not puncture	or incinerate container	s. Do no	store at ten	peratures ab	ove 130°F.				
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF	CHILDREN. Avoid for	od contan	nination. Avo	oid inhalation	of vapors.				

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

This MSDS complies with OSHA'S Hazard Co				JOHN TOHN T				
	MANUFAC	TURER'S INFORMAT	ION	h. a. 5	with a Co	and Destantia		
NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special		IMIS Rating: Health-2;		DOMESTIC CONTRACTOR OF THE PARTY OF THE PART	vity-0; Pers	onal Protection-B		
Manufactured For: Hillyard Industries, Inc.		OOT Hazard Classifi						
Address: 302 N. 4th Street	10	Identity (trade name as used on label): I-Force Contact & Circuit Cleaner						
Address: St. Joseph, MO 64501		I-For		ct & Circui L0110954)	t Cleaner			
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.c	com N	MSDS Number: A00	368	Revis	sion-5			
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300		Date Prepared: 12-07-	-01	Prepa	red By: CH	I/TR		
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	Ir	nformation Calls: (770)4	22-2071					
SECTION 1 - MATERIA	L IDENTI	FICATION AND INFO	RMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen		
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)			III LIST	(ppm)	TLV (ppm)	Ref. Source **		
ISOPROPANOL		67-63-0	No	400	400	d		
2-METHYLPENTANE		107-83-5	No	500	500	d		
3-METHYLPENTANE		96-14-0	No	500	500	d		
2,3 DIMETHYLBUTANE		79-29-8	No	500	500	d		
2,2 DIMETHYLBUTANE		75-83-2	No	500	500	d		
CARBON DIOXIDE		124-38-9	No	5000	5000	d		
n-HEXANE		110-54-3	Yes	50	50	d		
II-REAANE		110-34-3	165	30	30	u		
SECTION 2 - PHYSI	CAL/CHE	MICAL CHARACTER	RISTICS					
Boiling Point: N/A		Specific Gravity (H2O=1		rate Only = 0.	667			
Vapor Pressure: PSIG @ 70°F (Aerosols): 80-100		/apor Pressure (Non-Ae				A		
Vapor Density (Air = 1): N/E	E	vaporation Rate (= 1):	N/E				
Solubility in Water:None	V	Vater Reactive: No						
Appearance and Odor: Clear forceful spray with aliphatic solvent od								
SECTION 3 - FIRE	E AND EX	PLOSION HAZARD	ATA					
FLAMMABILITY as per USA FLAME PROJECTION TEST Auto Ignition Temperature Flammability Limits in Air by % in Volume:								
erosols) EXTREMELY FLAMMABLE N/E % LEL: N/E % UEL: N/E								
FLASH POINT AND METHOD USED (non-aerosols): N/A EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.								
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.								
Unusual Fire & Explosion Hazards: Do not expose aerosols to tem				pture.				
SECTION 4 - REACTIVITY HAZARD DATA								
STABILITY [X] STABLE [] UNSTABLE HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR								
Incompatibility (Mat. to avoid): Strong oxidizing agents.	(Conditions to Avoid	: Open fla	ame, weldin	g arcs, heat	t, sparks.		
Hazardous Decomposition Products: Carbon dioxide, car								
		TH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: [X] INHALATION [ORPTION	[]EYE	I NOT HA	ZARDOUS		
ACUTE EFFECTS	11102011	ON [M]ONNIA	314 11011	1 1-1-	[]	210000		
Inhalation: Excessive inhalation of vapors can cause nasal	2 rospirat	on irritation dizzines	c weakne	ee nauena	headache	possible		
unconsciousness or asphyxiation.	ατεσμιται	ory irritation, dizzines	s, weakile	ss, Hausea	, ricauacrie,	hossine		
	T _e	Ckin Contact: Clicht	reitation d	io to dofatti	as of alsia			
Eye Contact: Slight irritation.		Skin Contact: Slight	mitation di	de to defattif	ng of skin.			
Ingestion: Irritation.	• 00.775.00 (00.00) (00.00)							
CHRONIC EFFECTS: (Effects due to excessive exposure to the nervous system effects.	he raw ma	aterials of this mixture	e) Excess	ive inhalation	n may result	in central		
Medical Conditions Generally Aggravated by Exposure	: May ag	gravate existing eye,	skin, or up	per respira	tory condition	ons.		
EMERGEN	ICY FIRST	AID PROCEDURES	*					
Eye Contact: Flush with water for 15 minutes. If irritated, see	ek medica	al attention.						
Skin Contact: Wash with soap and water. If irritated, seek m								
Inhalation: Remove to fresh air. Resuscitate if necessary.								
Ingestion: DO NOT INDUCE VOMITING. Drink two large gla			medical a	ttention.	102			
		PROTECTIVE MEAS		ttorition.				
Respiratory Protection (specify type): If vapor concentra				ed by NIO	SH approve	d for organic		
vapor.			- 88			u ioi organic		
Protective Gloves: Neoprene		Eye Protection: Saf		s recommer	nded.			
Ventilation Requirements: Adequate ventilation to keep v	apor cond	centration below TLV	8					
Other Protective Clothing & Equipment: None								
Hygienic Work Practices: Wash with soap and water before	ore handlir	ng food.						
SECTION 7 - PRECAU	UTIONS FO	OR SAFE HANDLING	AND USE					
Steps To Be Taken If Material Is Spilled Or Released: A federal regulations. DO NOT FLUSH TO SEWER.	Absorb wit	h suitable medium. I	ncinerate o	or landfill ac	cording to lo	ocal, state or		
Waste Disposal Methods: Aerosol cans when vented to at								
Precautions To Be Taken In Handling & Storage: Do not	THE RESERVE THE PERSON NAMED IN	the same of the sa			mperatures	above 130°F.		
Other Precautions &/or Special Hazards: KEEP OUT OF R	REACH OF	F CHILDREN. Avoid for	ood contan	nination.				

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

^{**} Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

This MSDS complies with OSHA'S Hazard Comr				nd OSHA FOR	n 1/4			
	IDENTITY AND DISTRIBUTOR'S INFORMATION							
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-0	HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-B							
Manufactured For: Hillyard Industries, Inc.		DOT Hazard Classification: ORM-D						
Address: 302 N. 4 th Street	Ide	Identity (trade name as used on label):						
Address: St. Joseph, MO 64501		I-Fo		etrating Lu	bricant			
		(# HIL0111054)						
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com		DS Number: A00	391		ision- 14			
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300	0.000	Prepared: 10/11/95		Prepared	By: ES/AH			
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	Infor	mation Calls: (770)42	22-20/1					
SECTION 1 - MATERIAL IDI	ENTIFIC	CATION AND INFO	RMATION	1				
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen		
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)			III LIST	(ppm)	TLV (ppm)	Ref. Source **		
TRICHLOROETHYLENE		79-01-6	Yes	50	50	b		
PERCHLOROETHYLENE		127-18-4	Yes	25	25	a,b		
PETROLEUM DISTILLATE		64742-54-7	Yes	5mg\M3	5mg\M3	d		
BARIUM PETROLEUM SULFONATE		61760-48-5	Yes	5mg\M3	5mg\M3	d		
WARNING: This product contains a chemical or chemicals is	cnown							
to the State of California to cause cancer.								
to the otate of camerina to cade cancer.								
SECTION 2 - PHYSICAL/	CHEMI	CAL CHARACTER	ISTICS			1		
Boiling Point: N/A		cific Gravity (H2O=1)		trate Only = 1	44			
Vapor Pressure: PSIG @ 70°F (Aerosols): 85-100		or Pressure (Non-Aei			A STATE OF THE PARTY OF THE PAR	A		
Vapor Density (Air = 1): N/E		poration Rate (n-bu						
Solubility in Water: Insoluble		er Reactive: No	tyr dootato	17. 2.1 (00.	iodinato om			
Appearance and Odor: Light brown color with chlorinated solvent odor.								
SECTION 3 - FIRE AN	D EXPL	OSION HAZARD D	ATA					
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols)	The second second	nition Temperature	11.00	ability Limits in	Air by % in	Volume:		
NON-FLAMMABLE		N/E	% LEL	170	% UEL:			
FLASH POINT AND METHOD USED (non-aerosols): N/A	EXT	INGUISHER MEDIA:	Foam, dry	chemical, car	bon dioxide.			
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparat	tus.							
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperate			ner may ru	pture.				
SECTION 4 - REA		Y HAZARD DATA						
STABILITY [X] STABLE [] UNSTABLE		ARDOUS POLYMERIZ	-		-	T OCCUR		
Incompatibility (Mat. to avoid): Reactive metals, aluminum, magnesium, str	rong Con	ditions to Avoid: O	oen flame,	welding arcs,	heat.			
oxidizing agents.		and ablades	1					
Hazardous Decomposition Products: CO2, CO, HCI, small amounts of ph	-							
		HAZARD DATA	1 MOITO	1.EVE / 1	NOT HAZAD	DOLLE		
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGE	ESTION	[X] SKIN ABSORE	TION [] EYE []	NOT HAZAR	0008		
Inhalation: Excessive inhalation of vapors can be harmful and may cause h	neadache	dizziness asnhvyja	anesthetic	effects and r	ossible unco	nsciousness		
Eye Contact: Irritation		Contact: Irritation d			70031010 01100	130100311033.		
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.								
CHRONIC EFFECTS:(Effects due to excessive exposure to the raw material	ls of this	mixture) May cause	iver abnor	malities, kidne	y, spleen, lur	g or brain		
damage, cardiac abnormalities. Perchloroethylene has been shown to increa	se the ra	te of spontaneously o	ccurring ma	alignant tumor	s in certain la	boratory rats and		
mice.								
Medical Conditions Generally Aggravated by Exposure: May aggravate			spiratory co	onditions.				
		PROCEDURES						
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical atter Skin Contact: Wash with soap and water. If irritated, seek medical attention	-							
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention		- KIND OIL - III						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water		mediate medical atter	tion					
SECTION 6 - CONTROL	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		The state of the s					
Respiratory Protection (specify type): If vapor concentration exceeds TLV				u of Mines fo	r organic van	or		
Protective Gloves: Neoprene gloves recommended.		Protection: Safety			organic vap	01.		
Ventilation Requirements: Adequate ventilation to keep vapor concentration			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Other Protective Clothing & Equipment: None								
Hygienic Work Practices: Wash with soap and water before handling food	Remove	contaminated clothin	g.					
SECTION 7 - PRECAUTION	NS FOR	SAFE HANDLING	AND USE					
Steps To Be Taken If Material Is Spilled Or Released: Absor		A STATE OF THE PROPERTY OF THE PARTY OF THE		or landfill ac	cording to lo	cal state or		
Federal regulations. Allow to evaporate if small spill. DO NOT FLUS				z. iuriumi do	our uning to it	out, state of		
Waste Disposal Methods: Aerosol cans when vented to atmosp			rmal use	nose no die	nosal haza	rd		
Precautions To Be Taken In Handling & Storage: Do not pund		The second secon	The second second second second	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN COLUMN		The second secon		
Other Precautions &/or Special Hazards: KEEP OUT OF REAC				unitation. AV	orantu os aus	rantae of any bird		

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only
THIS MSDS IS CURRENT AS OF September 10, 2002. The DATE PREPARED section is the original date assembled and remains current until a change is necessary. This is tracked internally at the manufacturer by these date codes and therefore must remain as the originating date.

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

This wada compiles with Oark a razard Commun	ilcauon c	Statituard 25 Of It 1510.	1200 and	OOI IA T OITH T	A COL	
IDENTITY AND DIST						
NFPA Rating: Health-1; Flammability-1; Reactivity-0; Special-	HMIS Rating: Health-1; Flammability-1; Reactivity-0; Personal Protection-					
Manufactured For: Hillyard Industries, Inc.	DOT Hazard Classification: ORM-D					
Address: 302 N. 4 th Street	Identity (trade name as used on label):					
Address: St. Joseph, MO 64501	I-Force Decal & Adhesive Remover					
			(# HI	L0111254)		
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com	m MSDS Number: A00364 Revision- 4					
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300	Dat	e Prepared: 03/22/9	3	Prepa	ared By: ES	3
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	Info	rmation Calls: (770)42	2-2071			
SECTION 1 - MATERIAL ID	ENTIFIC	CATION AND INFO	RMATION			
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)			III LIST	(ppm)	TLV (ppm)	Ref. Source **
MONOCYCLIC TERPENE		5989-27-5	No	N/E	N/E	d
			07100			
SECTION 2 - PHYSICAL						
Boiling Point: N/A		cific Gravity (H2O=1):				
Vapor Pressure: PSIG @ 70°F (Aerosols): Max. 50		or Pressure (Non-Aer			erature): N/	A
Vapor Density (Air = 1): 8	_	poration Rate (= 1):	N/E		
Solubility in Water: Negligible	Wat	er Reactive: No				
Appearance and Odor: Thin clear liquid with citrus fragrance.	D EVD!	00101111474000				
SECTION 3 - FIRE AN				2 400 2 4 2	1 22 7 22	
	Auto Igi	nition Temperature	D100,411,02800	nability Limits		
(aerosols) NON-FLAMMABLE		N/E	% LEL		Charles Committee of	: N/E
FLASH POINT AND METHOD USED (non-aerosols): N/A	SPECIAL FIRE FIGHTING PROCEDURES: Use water fog to cool containe					ol container to
EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.		ent rupturing and burst				
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperate			ner may ru	pture. Provide	shielding to	protect personnel.
		Y HAZARD DATA				
STABILITY [X] STABLE [] UNSTABLE	_	ZARDOUS POLYMERIZ			-	T OCCUR
Incompatibility (Mat. to avoid): Oxidants	Cor	nditions to Avoid: Op	en flame,	welding arcs,	heat, sparks.	
Hazardous Decomposition Products: Carbon dioxide.						
		HAZARD DATA				
	ESTION	[] SKIN ABSORPTI	ON [X] EYE [] N	OT HAZARD	OUS
ACUTE EFFECTS:						
Inhalation: Can cause headache, dizziness. Eye Contact: Irritating	levi	n Contact: Can cause	ckin dofal	ting		
Ingestion: Possible chemical pneumonitis if aspirated into lungs.	PKII	ii Contact. Can cause	Skill uelai	ung.		
CHRONIC EFFECTS: None known.						
Medical Conditions Generally Aggravated by Exposure: Asthma.						
	IRST AI	D PROCEDURES	-		-	
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical atte		DIROCEDORES				
Skin Contact: Wash with soap and water. If irritated, seek medical attention			1		To a series of	
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical at						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water	-	mediate medical atten	tion.			
SECTION 6 - CONTROL						
Respiratory Protection (specify type): Not normally needed.		TO LOTTE MEAD				
Protective Gloves: Solvent resistant	Eve	Protection: Safety g	lasses rec	ommended	-	
Ventilation Requirements: Normal room ventilation.	-,0	- station out of g				
Other Protective Clothing & Equipment: None			-	- 10/11/10		
Hygienic Work Practices: Wash with soap and water after contact.						7
SECTION 7 - PRECAUTION	NS FOR	SAFE HANDLING A	ND USE			
Steps To Be Taken If Material Is Spilled Or Released: Cover with absorbe				vater Inciner	ate or landfill	according to

Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

local, state or Federal regulations.

Thi	s MSDS complies with OSHA'S Hazard Commun				OSHA Form 1	74	
	IDENTITY AND MANUF						
	mmability-3; Reactivity-0; Special		Rating: Health-2;			ivity-0; Pers	onal Protection-E
Manufactured For: Hilly		DOT Hazard Classification: ORM-D					
Address: 302 I	N. 4 th Street	Identity (trade name as used on label):					
Address: St. J	ose <mark>ph, MO 64501</mark>	I-Force Brake & Parts Cleaner (# HIL0111354)					
Phone: (816)-233-132	1 ext. 8285 or http://www.hillyard.com	MSDS Number: A00732 Revision- 2					
				5 (1 (A) (A) (A) (A)			· ·
	MBER: Chemtrec 1-800-424-9300 ASED ON INDIRECT TEST DATA	Date Prepared: 02/29/00 Prepared By: KD/CH Information Calls: (770)422-2071					
	SECTION 1 - MATERIAL IDE	NTIFICAT	TION AND INFO	RMATION			
COMPONENTS-CHEMICAL NA (Hazardous Components 1% or	MES AND COMMON NAMES r greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
HEXANE			110-54-3	Yes	50	50	d
ACETONE			67-64-1	No	1000	750	d
CARBON DIOXIDE			124-38-9	No	5000	5000	d
	SECTION 2 - PHYSICAL/O						
Boiling Point: N/A			ic Gravity (H2O=1	The second second			
Vapor Pressure: PSIG @ 70°		Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A					A
Vapor Density (Air = 1): N/E		Evaporation Rate (= 1): N/E					
Solubility in Water:None			Reactive: No			1000	
Appearance and Odor: Clea	r forceful spray with aliphatic/ketone solvent odd						
	SECTION 3 - FIRE AND						
	A FLAME PROJECTION TEST Y FLAMMABLE	Auto Igniti	on Temperature N/E	E 1000 C 1000 C	nability Limit: .: N/E	s in Air by % WEL	
FLASH POINT AND METHOD SPECIAL FIRE FIGHTING PR	USED (non-aerosols): N/A OCEDURES: Self-contained breathing apparatus		GUISHER MEDIA:	Foam, dry	chemical, car	bon dioxide.	
Unusual Fire & Explosion H	azards: Do not expose aerosols to temperature	es above 1	30°F or the contain	er may rup	ture.		
	SECTION 4 - REAC						
STABILITY [X] STABLE	[] UNSTABLE	HAZAF	RDOUS POLYMERI	ZATION [1 WILL [X WILL NO	T OCCUR
Incompatibility (Mat. to avoid): Strong oxidizing agents.		ions to Avoid: O	The same of the sa		-	
Hazardous Decomposition P	roducts: Carbon dioxide, carbon monoxide.			4			
	SECTION 5 - HE	ALTH HA	ZARD DATA				
PRIMARY ROUTE:	S OF ENTRY: [X] INHALATION [] INGES	STION [X] SKIN ABSOR] NOITS] EYE []	NOT HAZARD	ous
ACUTE EFFECTS							
Inhalation: Excessive inhalation asphyxiation.	on of vapors can cause nasal & respiratory irritat	tion, dizzin	ess, weakness, na	usea, head	ache, possible	unconscious	ness or
Eye Contact: Slight irritation.		Skin C	ontact: Slight irrita	ation due to	defatting of s	kin.	
Ingestion: Irritation.							
CHRONIC EFFECTS: (Effects	due to excessive exposure to the raw materials	s of this mi	xture) Excessive	inhalation i	may result in o	entral nervou	is system effects
Medical Conditions Generally	y Aggravated by Exposure: May aggravate ex			piratory cor	ditions.		
	EMERGENCY FIR	RST AID P	ROCEDURES				
	for 15 minutes. If irritated, seek medical attenti	ion.					
	and water. If irritated, seek medical attention.				122012202		
	ir. Resuscitate if necessary. Get medical atter						
Ingestion: DO NOT INDUCE	VOMITING. Drink two large glasses of water.						
	SECTION 6 - CONTROL A						
	ify type): If vapor concentration exceeds TLV,					nic vapor.	
Protective Gloves: Neoprene			otection: Safety	glasses rec	ommended.		
	dequate ventilation to keep vapor concentration to	below ILV.					
Other Protective Clothing & I	ash with soan and water before handling food						

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

This MSDS compiles with OSHA'S Hazard Commun	nication a	Standard 29 CFR 1910	1200 and	OSHA FUIII I	14	
IDENTITY AND DIST						
NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special		S Rating: Health-2;			ivity-0; Pers	onal Protection-B
Manufactured For: Hillyard Industries, Inc.	1000	DOT Hazard Classification: ORM-D				
Address: 302 N. 4 th Street	lde	ntity (trade name as				
Address: St. Joseph, MO 64501		I-Ford		rating Lub IL0111454)	ricant NC	
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com	MS	DS Number: A003	-		sion- 10	
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300		e Prepared: 05/27			ared By: AF	I/ID
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA	V28999	rmation Calls: (770) 4		riep	areu by. Ar	1/10
SECTION 1 - MATERIAL ID			NOTE THAT	1		
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)			III LIST	(ppm)	TLV (ppm)	Ref. Source **
PETROLEUM DISTILLATE		64742-47-8	No	NE	NE	d
ALIPHATIC PETROLEUM DISTILLATE		8052-41-3	No	100	100	d
PETROLEUM OIL		64742-53-6	No	5mg/M3	5mg/M3	d
ISOBUTANE / PROPANE BLEND		74-98-6	No	1000	1000	d
		75-28-5	No	800	800	d
SECTION 2 - PHYSICAL/			NEWS CONTRACTOR			
Boiling Point: N/A Vapor Pressure: PSIG @ 70°F (Aerosols): Max. 60		cific Gravity (H2O=1)				
Vapor Pressure: PSIG @ 70 F (Aerosois): Max. 60 Vapor Density (Air = 1): N/E		or Pressure (Non-Aer poration Rate (= 1):		erature): N/	A
Solubility in Water: Insoluble	-	er Reactive: No	- 1).	IN/C		
Appearance and Odor: Light straw spray with aliphatic solvent odor.	1		-			
SECTION 3 - FIRE AN	D EXPL	OSION HAZARD DA	ATA		NEW TOTAL	
		nition Temperature		ability Limits	in Air by %	in Volume:
(aerosols: greater than 18 " with flashback to tip.		N/E % LEL: N/E % UEL: N/E				
EXTREMELY FLAMMABLE						
FLASH POINT AND METHOD USED (non-aerosols): N/A		INGUISHER MEDIA:	oam, dry	chemical, carl	on dioxide.	E 1840 0 8
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatunusual Fire & Explosion Hazards: Do not expose aerosols to temperature.		- 400%F th				
		Y HAZARD DATA	er may ru	oture.		
STABILITY [X] STABLE [] UNSTABLE		ARDOUS POLYMERIZ	ATION I	1 WILL C	X] WILL NO	T OCCUP
Incompatibility (Mat. to avoid): Strong oxidizing agents.		ditions to Avoid: Op		-		T OCCUR
Hazardous Decomposition Products: CO, CO2, unknown oxides of carbo	on, as we	ell as trace amounts of	fluorides,	phosphides a	nd zinc.	
		HAZARD DATA				THE RIVE
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] ING	ESTION	[] SKIN ABSORPT	I NOI	EYE [] N	IOT HAZARD	ous
ACUTE EFFECTS						
Inhalation: Excessive inhalation of vapors can be harmful and ma	y cause	e headache, dizzine	ss, asph	yxia, anesth	etic effects	and possible
unconsciousness.	los :					
Eye Contact: Mild irritation.		n Contact: Mild irri	tation du	e to defatting	of skin.	
Ingestion: Possible chemical pneumonitis if aspirated into lungs.						
CHRONIC EFFECTS: (Effects due to excessive exposure to the ray dermititus.						
Medical Conditions Generally Aggravated by Exposure: Ma	y aggra	vate existing eye, s	kin, or up	per respirat	ory condition	ns.
		D PROCEDURES	N.			
Eye Contact: Flush with water for at least 15 minutes. If irritated, s						
Skin Contact: Wash affected areas with soap and water. If irritate						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get me						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses	of wate	er. Get immediate n	nedical a	ttention.		
SECTION 6 - CONTROL						
Respiratory Protection (specify type): If vapor concentration	exceed	s TLV, use respirate	orapprov	ed by NIOSI	H/MSHA for	organic vapor
Protective Gloves: Neoprene, if skin easily irritated.		Protection: Safet				
Ventilation Requirements: Adequate ventilation to keep vapor	concen	tration below TLV.	25			E TOTAL ST
Other Protective Clothing & Equipment: Eyewash station reco	mmeno	ded.				
Hygienic Work Practices: Wash with soap and water before har			ninated c	lothing.		
SECTION 7 - PRECAUTION	IS FOR	SAFE HANDLING A	ND USE		DE LA CONTRACTOR DE LA	
Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquit according to local, state or federal regulations. DO NOT FLUSH TO SEWER.	d with ine	ert material. Place in cli	osed drum	for proper dis	posal. Incine	rate or landfill
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressur	e throug	h normal use nose no	disposal h	azard		
Precautions To Be Taken In Handling & Storage: Do not puncture or incir	nerate co	ntainers. Do not store	at temper	atures above	130°F.	
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHI	LDREN.	Avoid food contamina	tion. Rem	ove ignition s	ources.	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only.