MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: Ronsonol Lighter Fuel DATE: February 3, 2010					
TRADE NAME: Ronsonol Lighter Fuel GENERAL USE: Lighter Fluid CHEMICAL FAMILY: Hydrotreated Petroleum Distillates PRODUCT DESCRIPTION: Clear Water White, Light Hydrocarbon Liquid With a Solvent Petroleum Naphtha Odor. Page 2010				DNOL®	
MANUFACTURED FOR:	DATE PREF		February 3, 20	010	
Zippo Manufacturing Company	SUPERSED		New Issue.		
ADDRESS (NUMBER, STREET, P.O. BOX)	TELEPHON	E NUMBER FC		ION / Customer Service	
			814-368-270		
(CITY, STATE AND ZIP CODE)COUNTRYBradford, PA 16701USA	Chem		1-800-25 North Americ		
SECTION 2 - HAZ	ZARDOUS	INGREDI	ENTS		
Hazardous Components		% (by Weight)		CAS #	
Light Hydrotreated Distillate		7(68410-97-9	
Hydrotreated Light Naphtha		30	0	64742-49-0	
Notes: This product does not require a can Communication Standard.Benzene		varning in acco	ordance with	the OSHA Hazard	
SECTION 3 - HA	ZARDS I	DENTIFICA	TION		
 * WARNING: Flammable Liquid and Vapor. The Flash Point is <100 degrees F. * When burned the product produces carbon monoxide and other asphyxiants during combustion. * Harmful if inhaled and may cause delayed lung injury. * Aspiration hazard if swallowed - can enter lungs and cause damage. * Keep away from heat, sparks, and flame. * Avoid breathing vapor. Use ventilation to keep vapor below exposure limits. * Unprotected exposure to this product will cause skin dryness. * Remove product soaked clothing and wash with mild soap. * This product is not listed on the NTP, IARC, OSHA, or ACGIH lists of suspected/confirmed carcinogens. * This product is readily biodegradable in the presence of air and sunlight. * Spilled material is slippery and may cause falls. 					
POTENTIAL HEALTH EFFECTS					
INHALATION: Tests on similar material indicate the possibility of the following symptoms: headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.					
SKIN: Tests on similar materials indicate acute irritation is expected to occur upon short-term exposure, chronic dermatitis on prolonged contact.					
EYES: Tests on similar materials suggest acute irritation be expected.					
INGESTION: ACUTE ASPIRATION HAZARD. Tests on similar materials indicate possibility of the following symptoms: headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions, and loss of consciousness.					
CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? CALIFORNIA, Prop.65? NO	' NO		OSHA REG	GULATED? NO	

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Ronsonol Lighter Fuel
DATE: February 3, 2010
SECTION 4 - FIRST AID MEASURES
INHALATION:
Remove patient to fresh air and consult a physician. If breathing is difficult give oxygen. If not breathing give artificial respiration.
EYES:
Flush eyes immediately with water for at least 15 minutes or until irritation subsides, occasionally lifting lower and upper lids. Get medical
attention promptly.
SKIN: Wash therewally with soon and water. Immediately remove contaminated elething and wash before rouse. If irritation or resh develops
Wash thoroughly with soap and water. Immediately remove contaminated clothing and wash before reuse. If irritation or rash develops, obtain medical assistance. Immediately remove soaked clothing.
INGESTION:
CALL PHYSICIAN IMMEDIATELY. Do not induce vomiting except at the instruction of a physician. Never give anything by mouth to an
unconscious person.
SECTION 5 - FIRE FIGHTING MEASURES
GENERAL HAZARDS:
FLASH POINT: <73°F (<23°C) Tag Closed Cup. FLAMMABILITY CLASS: IB, LOWER EXPLOSIVE LIMIT (%): 0.85, UPPER
EXPLOSIVE LIMIT (%): 7.8
EXTINGUISHING MEDIA:
Dry Chemical, carbon dioxide, and foam. NOTE: Water, fog and foam may cause frothing and spattering. Water stream may spread fire.
FIRE FIGHTING PROCEDURES:
Use water to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment.
Fire fighting personnel should wear respiratory protection(positive pressure if available). If leak or spill has not ignited, use water spray to
disperse the vapors.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Can form flammable mixtures with air and flash at room temperature or upon slight heat application. Vapors are heavier than air and may travel considerable distance. Explosion hazard in confined spaces if exposed to ignition source. Mists or sprays may be flammable below
oil's normal flash point. Keep away from heat or open flame.
HAZARDOUS COMBUSTION PRODUCTS:
Fumes, smoke and carbon monoxide.
SECTION 6 - ACCIDENTAL RELEASE MEASURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Evacuate area and shut off ignition source. Contain spill and keep from entering waterways or sewers. Use personal protective equipment.
Advise EPA; state agency if required. Trained personnel should absorb with inert material. Use safe, non-sparking equipment to remove
waste and prepare for disposal.
SECTION 7 - HANDLING AND STORAGE
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
HANDLING: Keep product away from high energy ignition sources, heat, sparks, pilot lights, static electricity and open flames. Avoid contact with skin. Avoid inhalation of vapors or mists. Use in well ventilated area away from all ignition sources. See Section 8 for
additional personal protection advice when handling this product.
STORAGE: Store in a cool area. Store as OSHA Class 1B flammable liquid.
SPECIAL PRECAUTIONS: To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or
ground product transfer system. Electrical equipment and fittings must comply with local fire prevention regulations for this class of
product. Use the correct grounding procedures. Refer to national or local regulations covering safety of petroleum handling and storage
areas for this product. <u>EMPTY CONTAINER WARNING:</u> Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE,
CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC
ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill
or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned
to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
WORK/HYGIENIC PRACTICES: Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use
harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked
clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

SECTION	3, 2010 8 - FXPO	SURE CO		/ PERSON		FCTION		
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION NIOSH ACGIH OSHA								
HAZARDOUS COMPONENTS	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3		TWA mg/m3		STEL mg/m
Light Hydrotreated Distillate	NE				NE		NE	
Hydrotreated Light Naphtha	NE				NE		NE	
This product contains:			-		•			
Pentane, CAS# 109-66-0, NIOS	SH TWA 120p	opm, ACGI⊢	I TWA 600p	om.				
Heptane, CAS# 142-82-5, OSH								
Octane, CAS# 111-65-9, OSHA		om, ACGIH	TWA 375ppi	n.				
Nonane, CAS# 111-84-2, ACGI								
PERSONAL PROTECTIO	N							
RESPIRATORY PROTECTION:								
Up to 1000 ppm, half mask organic								
vapor respirator or full face supplied breathing apparatus with positive p								
published standards in 29 CFR 191		i be useu. Ne		cion programs				WILLI
PROTECTIVE GLOVES:								
Avoid prolonged and/or repeated sł	kin contact. If n	vrolonged con	tact cannot b	a avoided wear	notective im	nervious alc	wes and c	lothing
Acceptable materials for gloves are			naci carnoi bi		protective in	ipervious gic		iouning.
EYE PROTECTION:		-,						
Safety glasses, splash goggles, or f	face shield as	appropriate. I	Have suitable	eve wash wate	r available.			
OTHER PROTECTIVE CLOTHING				.,				
If there is a likelihood of splashing,			uld be worn. N	lever wear oil s	oaked clothin	a. Launder o	or drv cleai	n before
wearing. Discard oil soaked shoes.								
Standard). Maintain local or dilution	ventilation to	keep air conc	entration belo	w 100ppm. Loa	ading,			
unloading, tank gauging, etc., rema	in upwind. Red	quest assistar	nce of safety a	and industrial h	vaiono norcor		nin a air	
		•	loc of baloty t		giene persor	inel to deterr	nine air	
concentrations.					giene persor	inel to deterr	nine air	
WORK / HYGIENIC PRACTICES:								
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b		Irinking, smok	king or use of	toilet facilities. I	Do not use ha	rsh abrasive	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take	a shower after	lrinking, smok work if gener	king or use of	toilet facilities. I	Do not use ha	rsh abrasive	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl	a shower after hoes and leath	lrinking, smok work if gener er gloves.	king or use of ral contact occ	toilet facilities. I curs. Remove o	Do not use ha il-soaked clot	rsh abrasive hing and lau	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl	a shower after hoes and leath	lrinking, smok work if gener er gloves.	ral contact occ	toilet facilities. I curs. Remove o	Do not use ha il-soaked clot	rsh abrasive hing and lau	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sh SEC APPEARANCE AND ODOR	a shower after hoes and leath TION 9 - P	Irinking, smok work if gener er gloves.	ral contact oco AND CH	toilet facilities. I curs. Remove o	Do not use ha il-soaked clot	rsh abrasive hing and lau	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sk SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocark	a shower after hoes and leath TION 9 - P	Irinking, smok work if gener er gloves.	ral contact occ	toilet facilities. I curs. Remove o	Do not use ha il-soaked clot	rsh abrasive hing and lau	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sh SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor.	a shower after hoes and leath TION 9 - P	Irinking, smok work if gener er gloves.	ting or use of ral contact occ AND CH VAPOR PRI 6.9 psi	toilet facilities. I curs. Remove o HEMICAL F ESSURE	Do not use ha il-soaked clot PROPERT	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH	a shower after hoes and leath TION 9 - P	Irinking, smok work if gener er gloves.	ting or use of ral contact occ AND CH VAPOR PRI 6.9 psi SPECIFIC C	toilet facilities. I curs. Remove o	Do not use ha il-soaked clot PROPERT	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA	a shower after hoes and leath TION 9 - P pon Liquid With	Irinking, smok work if gener er gloves.	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706	toilet facilities. I curs. Remove o IEMICAL I ESSURE BRAVITY (WA	Do not use ha il-soaked clot PROPERT	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANG	a shower after hoes and leath TION 9 - P pon Liquid With	Irinking, smok work if gener er gloves.	And CH AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY	toilet facilities. I curs. Remove o IEMICAL I ESSURE GRAVITY (WA	Do not use ha il-soaked clot PROPERT	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sh SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C	a shower after hoes and leath TION 9 - P pon Liquid With	Irinking, smok work if gener er gloves.	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706	toilet facilities. I curs. Remove o IEMICAL I ESSURE GRAVITY (WA ⁻ Y IN WATER water.	Do not use ha il-soaked clot PROPERT	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT	a shower after hoes and leath TION 9 - P pon Liquid With	Irinking, smok work if gener er gloves.	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in	toilet facilities. I curs. Remove o HEMICAL F ESSURE BRAVITY (WA ⁻ GRAVITY (WA ⁻ (IN WATER water.	Do not use ha il-soaked clot PROPERT	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocark Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup	a shower after hoes and leath TION 9 - P pon Liquid With	Irinking, smok work if gener er gloves.	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in	toilet facilities. I curs. Remove o HEMICAL F ESSURE BRAVITY (WA ⁻ GRAVITY (WA ⁻ (IN WATER water.	Do not use ha il-soaked clot PROPERT TER = 1 @ 60	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS	a shower after hoes and leath TION 9 - P pon Liquid With	Irinking, smok work if gener er gloves.	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in	toilet facilities. I curs. Remove o HEMICAL F ESSURE GRAVITY (WA Y IN WATER water.	Do not use ha il-soaked clot PROPERT TER = 1 @ 60	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocard Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE	a shower after hoes and leath TION 9 - P bon Liquid With	Irinking, smok work if gener er gloves.	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE	toilet facilities. I curs. Remove o HEMICAL F ESSURE GRAVITY (WA Y IN WATER water.	Do not use ha iil-soaked clot PROPERT TER = 1 @ 60	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocard Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE	a shower after hoes and leath TION 9 - P bon Liquid With E	Irinking, smok work if gener er gloves. PHYSICAL	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1	toilet facilities. I curs. Remove o IEMICAL I ESSURE BRAVITY (WA GRAVITY (WA VIN WATER Water. Water. NSITY (AIR = 1 ION RATE (W	Do not use ha ii-soaked clot PROPERT TER = 1 @ 60	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocard Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE	a shower after hoes and leath TION 9 - P bon Liquid With E	Irinking, smok work if gener er gloves. PHYSICAL	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1	toilet facilities. I curs. Remove o HEMICAL F ESSURE GRAVITY (WATER Water. Water. NSITY (AIR = 1	Do not use ha ii-soaked clot PROPERT TER = 1 @ 60	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS	a shower after hoes and leath TION 9 - P bon Liquid With E	Irinking, smok work if gener er gloves. PHYSICAL	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1 ABILITY A CONDITION	toilet facilities. I curs. Remove o IEMICAL F ESSURE BRAVITY (WA ^T SRAVITY (WA ^T (WA ^T (WA ^T) (WA ^T) (W	Do not use ha il-soaked clot PROPERT TER = 1@ 60 TER = 1) ATER = 1)	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE NE	a shower after hoes and leath TION 9 - P bon Liquid With E 7.80% SECTION STABLE	Irinking, smok work if gener er gloves. PHYSICAL h a Solvent	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1 ABILITY A CONDITION	toilet facilities. I curs. Remove o IEMICAL I ESSURE GRAVITY (WA GRAVITY (WA GRAVITY (WA GRAVITY (WA GRAVITY (WA GRAVITY (AIR = 1) ION RATE (W AND REAC	Do not use ha il-soaked clot PROPERT TER = 1@ 60 TER = 1) ATER = 1)	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. OH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE NE STABILITY INCOMPATIBILITY (MATERIALS T Strong oxidizers.	a shower after hoes and leath TION 9 - P bon Liquid With E 7.80% SECTION STABLE TO AVOID):	Irinking, smok work if gener er gloves. PHYSICAL h a Solvent	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1 ABILITY A CONDITION	toilet facilities. I curs. Remove o IEMICAL F ESSURE BRAVITY (WA ^T SRAVITY (WA ^T (WA ^T (WA ^T) (WA ^T) (W	Do not use ha il-soaked clot PROPERT TER = 1@ 60 TER = 1) ATER = 1)	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGE IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE NE STABILITY INCOMPATIBILITY (MATERIALS T Strong oxidizers. HAZARDOUS DECOMPOSITION (a shower after hoes and leath TION 9 - P bon Liquid With E 7.80% SECTION STABLE TO AVOID): DR BYPRODU	Irinking, smok work if gener er gloves. PHYSICAL h a Solvent	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1 ABILITY A CONDITION	toilet facilities. I curs. Remove o IEMICAL F ESSURE BRAVITY (WA ^T SRAVITY (WA ^T (WA ^T (WA ^T) (WA ^T) (W	Do not use ha il-soaked clot PROPERT TER = 1@ 60 TER = 1) ATER = 1)	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE NE STABILITY INCOMPATIBILITY (MATERIALS T Strong oxidizers. HAZARDOUS DECOMPOSITION O Smoke, hydrocarbons fumes, carbo	a shower after hoes and leath TION 9 - P bon Liquid With E 7.80% SECTION STABLE TO AVOID): OR BYPRODU on monoxide.	Irinking, smok work if gener er gloves. PHYSICAL h a Solvent	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPOR AT >1 ABILITY A CONDITION Sources of in	toilet facilities. I curs. Remove o IEMICAL I SSURE SRAVITY (WA GRAVITY (WA GRAVITY (WA GRAVITY (WA GRAVITY (AIR = 1 Water. NSITY (AIR = 1 NSITY (AIR = 1 NSITY (AIR = 1 NSITY (AIR = 1 NSITY (AIR = 1) NSITY	Do not use ha il-soaked clot PROPERT TER = 1@ 60 TER = 1) ATER = 1)	rsh abrasive hing and lau TES	skin clear	
WORK / HYGIENIC PRACTICES: Wash hands with soap and water b washing exposed skin areas. Take Launder or discard contaminated sl SEC APPEARANCE AND ODOR Clear Water White, Light Hydrocart Petroleum Naphtha Odor. pH NA BOILING POINT / BOILING RANGI IBP>90°F IBP>32°C FLASH POINT <73°F (<23°C) Tag Closed Cup FLAMMABLE LIMITS LEL: 0.85% UEL: AUTOIGNITION TEMPERATURE NE	a shower after hoes and leath TION 9 - P bon Liquid With E 7.80% SECTION STABLE TO AVOID): OR BYPRODU on monoxide.	Irinking, smok work if gener er gloves. PHYSICAL h a Solvent	AND CH VAPOR PRI 6.9 psi SPECIFIC C 0.706 SOLUBILITY Negligible in VISCOSITY Negligible in VAPOR DEI NE EVAPORAT >1 ABILITY A CONDITION Sources of in	toilet facilities. I curs. Remove o IEMICAL F ESSURE BRAVITY (WA ^T SRAVITY (WA ^T (WA ^T (WA ^T) (WA ^T) (W	Do not use ha iil-soaked clot PROPERT TER = 1 @ 60 I) ATER = 1) CTIVITY ers.	rsh abrasive hing and lau TES	skin clear	

PRODUCT NAME: Ronson DATE: Februar	ol Lighter Fuel y 3, 2010			
		XICOLOGICAL INFO	RMATION	
	CAS #	LD50 of Ingre	dient	LC50 of Ingredient
Hazardous Components	EINECS #	(Specify Species a	nd Route)	(Specify Species)
ight Hydrotreated Distillate	68410-97-9 270-093-2	NE		NE
Hydrotreated Light Naphtha	64742-49-0	Oral, rat: LD50 = 25 gm/k	q	Inhalation, rat: $LC50 = 48000$
, , ,	265-151-9	COLOGICAL INFOR	-	ppm/4H;
f applied to leaves, this product o fish but may coat gill structure amphibians by preventing derma during pelage grooming.	may kill grasses and small p s resulting in suffocation if sp	lants by interfering with trans billed in shallow, running wate	piration and res er. Product may	be moderately toxic to
	SECTION 13 - DI	SPOSAL CONSIDE	RATIONS	
WASTE DISPOSAL METHO				
Product as supplied does not me waste mixture must be character andfill without prior solidification	ized. DO NOT dispose of thi . Waste product should be re	s product in drains or storm	sewers. DO NO tering.	
PROPER SHIPPING NAME:		o.s., Class 3, UN 1268, PG II		
DOT HAZARD CLASS / Pack Group:	Class 3,/PG II			troleum Distillates, n.o.s., Class
REFERENCE: 49CFR		IMDG HAZARD CLASS:		Distillates, n.o.s., Class 3, UN
UN / NA IDENTIFICATION NUM LABEL: Flammable Liquid HAZARD SYMBOLS:		RID/ADR Dangerous Goo UN TDG Class / Pack Gr Hazard Identification Nun	oup: UN1268,3,	NA-Blend. PG II 30
Note: Transportation information Nations TDG, and WHMIS (Cana packaging materials and methoo	ada) TDG information manua			
	SECTION 15 - RE	EGULATORY INFOR	MATION	
TSCA (USA - Toxic Substan	•	Ingredients are listed.		
SARA TITLE III (USA - Supe	rfund Amendments and F	,		
Acute Health:	Yes	Chronic Health: No		
Fire:	Yes	Sudden Release of Pressure: No		
Reactive:	No			
313 REPORTABLE INGRED	•			
CERCLA (USA - Compreher		• •	No RQ's ap	•
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: None Listed				
CPR (Canadian Controlled P	•	Listed		
DL (Canadian Ingredient Dis	·			
DSL / NDSL (Canadian Domest			Listed on DSL	
FINECS (European Inventor	y of Existing Commercial	Chemical Substances):	Ingredients	Referenced.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Ronsonol Light	or Fuel					
DATE: February 3, 201						
DATE. Tebruary 5, 201		17/01/				
SECTION 16 - OTHER INFORMATION						
Legend: NA= Not applicable, NE= Not established						
HMIS HAZARD RATINGS	HEALTH:	1	0 = INSIGNIFICANT			
	FLAMMABILITY:	3	1 = SLIGHT			
	PHYSICAL HAZARD:	0	2 = MODERATE			
	PERSONAL PROTECTIVE		3 = HIGH			
	EQUIPMENT:	С	4 = EXTREME			
REVISION SUMMARY:						
Revised to ANSI (USA), Standards 01/18/2010 new issueJTV						
MSDS Prepared by:						
Zippo Manufacturing Company 33 Barbour Street						
Bradford, PA USA 16701						
1-814-368-2700						
Website: www.zippo.com						
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the						
manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is						
current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by						
abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer						
of the product as described in Section 1.						