MATERIAL SAFETY DATA SHEET

PROQUET NAME Brakleen (bulk) #05090,05091:05093			MSDS	* MSDS00 5090		
MANUFACTURED SY: CRC CHEMICALS			Phone (215) 674-4300			
885 LOUIS DRI <mark>ve. Warmins</mark> ter, Pa	A. 18974					
. INGREDIENTS	CAS #	ACGIH TLV	OSHA PEL	Other Limits	4	
I,1,1 Trichloroethane	71-55-6	350	350		93.4	
Tert-butyl alcohol	75-65-0	100	100)	
1,2 Butylene oxide	106-88-7	N/A	N/A		< 6.6	
Dimethoxymethane	109-87-5	1000	NA_			
These chemicals on Toxi	c Chemical List fou	nd in sect	on 313	of the		
Emergency Planning and	Community Right-to-	Know Act (SARA Tit	le III)	and	
is subject to release i						
. PHYSICAL DATA						
pecific Gravity 1,293 @70° H	Vapor Pressure 100 mm	He acce 9	Volatile	100 %		
oiling Point 164 °F	Evaporation Rate Rapid					
reezing Point N/A	Vapor Density 4.55	air = 1)				
			centratio	ons.		
ppearance and Odor Colorless		at high cor			rials.	
ppearance and Odor Colorless	liquid, irritating odor	at high cor			rials.	
olubility Slight solub	liquid, irritating odor	at high cor			cials.	
olubility Slight solub FIRE AND EXPLOSION DA	liquid, irritating odor	at high cor		anic mater	rials.	
olubility Slight solub B. FIRE AND EXPLOSION DA lashpoint None Method TCC	liquid, irritating odor bility in water - good	at high cor	many organization	anic mater		
olubility Slight solub B. FIRE AND EXPLOSION DA lashpoint None Method TCC	liquid, irritating odor bility in water - good TA , coc, toc er, fog	at high cor	many organization	anic mater		
olubility Slight solub B. FIRE AND EXPLOSION DA lashpoint None Method TCC xtinguishing Media Wate	liquid, irritating odor bility in water - good TA , coc, toc er, fog	at high cor	many organization	anic mater		
ppearance and Odor Colorless of	liquid, irritating odor bility in water - good TA , COC, TOC er, fog	at high cor	many organization	anic mater		
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popular and Odor Colorless of the Color of the	liquid, irritating odor bility in water - good TA , COC, TOC er, fog TY osures to high temperat	solvent for Silvent for LE	many organization of the state	mits UEL 16.7)	
Deparance and Odor Colorless of	liquid, irritating odor bility in water - good TA , COC, TOC er, fog TY osures to high temperat Thermal - Hydrogen chlo	solvent for solvent for si LE	ammable Lines, as ine and so	mits UEL 16.7) ene.	
Dependence and Odor Colorless of Colorless o	liquid, irritating odor bility in water - good TA , COC, TOC er, fog TY osures to high temperat Thermal - Hydrogen chlorage in aluminum contai	solvent for solvent for si LE	ammable Lines, as ine and so	mits UEL 16.7) ene.	
Deparance and Odor Colorless olubility Slight solub S. FIRE AND EXPLOSION DA lashpoint None Method TCC extinguishing Media Wate linusual Hazards N/A S. REACTIVITY AND STABILI litability Good - Avoid expension products Materials to avoid Avoid storaging powds S. PROTECTION INFORMATI	liquid, irritating odor bility in water - good TA , COC, TOC er, fog Ty osures to high temperat Thermal - Hydrogen chlorage in aluminum contai ers. ON	solvent for solvent for silvent for silvent for silvent for silvent for consideration consider	ammable Lines, as ine and so tact with	mits UEL 16.7 rcs, etc.)) ene. and/or	
Depearance and Odor Colorless olubility Slight solub B. FIRE AND EXPLOSION DA lashpoint None Method TCC xtinguishing Media Wate linusual Hazards N/A B. REACTIVITY AND STABILI stability Good - Avoid expension products Materials to avoid Avoid storage zinc powd 5. PROTECTION INFORMATI	liquid, irritating odor bility in water - good TA , COC, TOC er, fog TY osures to high temperat Thermal - Hydrogen chlorage in aluminum contai ers.	solvent for solvent for silvent for silvent for silvent for silvent for consideration consider	ammable Lines, as ine and so tact with	mits UEL 16.7 rcs, etc.)) ene. and/or	
Deparance and Odor Colorless of	liquid, irritating odor bility in water - good TA , COC, TOC er, fog Ty osures to high temperat Thermal - Hydrogen chlorage in aluminum contai ers. ON	solvent for solvent for solvent for LE ures (open ride, chlor ners or con-	flames, and second with	mits UEL 16.7 rcs, etc.) ome phósge aluminum) and/or on if ne	
Deparance and Odor Colorless olubility Slight solub in FIRE AND EXPLOSION DA lashpoint None Method TCC extinguishing Media Wate inusual Hazards N/A	liquid, irritating odor bility in water - good TA , COC, TOC er, fog TY osures to high temperat Thermal - Hydrogen chlorage in aluminum contai ers. ON concentrations below T self contained breathin	solvent for solvent for solvent for LE ures (open ride, chlor ners or con-	flames, as ine and so tact with chanical	mits UEL 16.7 rcs, etc.) ome phósge aluminum) and/or on if ne	

6. HEALTH HAZARE	DATA
Primary Routes of Entry	Inhalation and skin contact
Signs and Symptoms of E	COSUTE CONTRACTOR CONT
1 Acute Overexposure	Inhalation - headaches, dizziness, anesthetic effects, unconsciousne
	Eyes - causes pain and some irritation. Skin - causes irritation
	on repeated exposures.
2. Chronic Overexposure	Reneated overexposures may cause liver and kidney effects.
Medical Conditions Gener	ally Aggravated by Exposure High levels may cause cardiac arrhythmias
A Distance of the Control of the Con	(over 8000 ppm).
Chemical Listed as Carcinogen or Potential Carcinogen	Hational Topicology Yes 그 IARC Yes 그 OSHA Yes 그 Program No 전치 Menographs No 전치 기이 전치
Emergency and First Aid F	Procedures (if symptoms persist, call a physician)
1 innalation Re	move to fresh air - apply artificial respiration if needed.
2. Eyes F1	ush with large amounts of water for 15 minutes.
3. Skin Re	move contaminated clothing. Wash exposed skin with soap and water.
4 Ingestion Do	not induce vomiting - call a physician.
7. SPILL OR LEAK P	ROCEDURES
Precautions to be taken in Handling and Storage St	ore in a cool, dry area. Do not store in aluminum containers.
Steps to be taken in case Materials is released or spilled	ep out of water supply. Ventilate area. Do not enter spill area
vi	thout a mask. Dike area and pump into containers or use absorbent to
pi	ck up.
Waste Disposal Tr	eat as Hazardous Waste. Dispose of in conformance with Local, State and
	ederal regulations.
8. SPECIAL PRECA	UTIONS AND USE DIRECTIONS
Avoid	contact with skin. Avoid breathing of vapors. Vapors are
heavier than air	and will collect in low areas such as pits, storage tanks, the hold of
a ship, etc. If	vapors are suspected in low areas, do not enter unless special breathing
apparatus is used	and an observer is present for assistance.
PREPARED BY: Aller	B. Reed
ORIGINAL DATE OF DAT	E OF REVISION 9-89