80-473

BATTERY CLEANER WITH ACID DECTECTOR

HMIS RATING	
Health	2
Flammability	2
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704	RATING
Health	2
Flammabilit	ty 2
Reactivity	0
NFPA 30B	LEVEL
1	

KIMBALL-MIDWEST
P.O. BOX 2470
COLUMBUS, OH 43216-2470

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1. PRODUCT IDENTIFICATION 1.	CAHON	V
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PART NUMBER	.80-473
PRODUCT NAME	.Battery Cleaner with Acid Detector
CHEMICAL FAMILY	.N/A
DOT SHIPPING	Limited Quantity (LQ)

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
Propane/Isobutane/N-butane (68476-86-8)	800ppm	800ppm		20
Triethanolamine (102-71-6)	NE	5mg/m ³		

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

3. PHYSICAL DATA

BOILING POINT (RANGE)	43-651°F
VAPOR PRESSURE PSIG @ 70°F	25-35
VAPOR DENSITY (AIR = 1)	>1
SOLUBILITY IN WATER	Complete
SPECIFIC GRAVITY (H2O = 1)	0.9224
MELTING/FREEZING POINT	N/A
EVAPORATION RATE (Ether=1)	>1
VOC content (by weight)	16.9%
APPEARANCE AND ODOR	Transparent amber /

4. FIRE AND EXPLOSION DATA

FLASH POINT	132°F
UPPER EXPLOSIVE LIMIT (%)	10.0
LOWER EXPLOSIVE LIMIT (%)	1.3
EXTINGUISHING MEDIA	Dry chemical, CO٫, foam, water fog
CDECIAL EIDEEIGHTING	•

SPECIAL FIREFIGHTING PROCEDURES

.Container can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

amine odor

FIRE AND EXPLOSION HAZARDS

INGESTION ...

S.......Vapors can travel to a source of ignition and flash back. "Empty" containers retain product 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. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

.This material may be harmful or fatal if swallowed. If a

corrosive product, may cause severe and permanent damage to the mouth throat and stomach.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRYHEALTH HAZARDS	Eyes, Skin, Inhalation
(ACUTE AND CHRONIC)	Vapors irritating to eyes and respiratory tract. Vapors may cause flash fire or explosion. Overexposure may cause nervous system damage, lung damage, kidney damage.
EYE CONTACT	Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of a fine dust in the eyes.
SKIN CONTACT	Prolonged or reaped contact can result in defatting and drying of the skin which may result in skin irritation an dermatitis.
INHALATION	Headaches, dizziness, nausea, decreased blood pressure, changes in hear rate and cyanosis may result from overexposure to vapor or skin exposure. Prolonged inhalation may be harmful.

5. HEALTH EFFECTS DATA CON'T.

FIRST AID PROCEDURES

FIRST AID FROCEDURES		
EYES	.Flush with water for at	
	least 15 minutes, obtain medical	
	attention.	
SKIN CONTACT	.Wash with soap, large volumes	
	of water. Obtain medical attention immediately.	
INGESTION	.Do not induce vomiting, obtain	
	immediate medical attention.	
INHALATION	. Remove to fresh air. Restore breathing	
	and keep calm and warm.	

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines)Presently not on any lists.

6. REACTIVITY

STABILITY	Stable
INCOMPATIBILITIES	Strong acids, alkalis, oxidizers and
	amines. Avoid all sources of ignition, welding arcs, and open flames.
HAZARDOUS DECOMPOSITION	
PRODUCTS	Oxides of carbon, nitrogen
HAZARDOUS POLYMERIZATION	Will not occur
HAZARDOUS POLYMERIZATION	
CONDITIONS	None known

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT	
REQUIREMENTS	Safety glasses; protective neoprene gloves; ventilation sufficient to maintain vapor concentrations below TLV; wear NIOSH approved respirator if TLV is exceeded
WASH REQUIREMENTS	Wash with soap and water.
SPILL OR LEAK PROCEDURES	Remove all sources of ignition; use absorbent sweeping compound to soak up material; wash area to prevent slipping
WASTE DISPOSAL METHODS	Dispose of in accordance with local, state, and federal hazardous waste regulations
HANDLING & STORAGE	from heat, sparks, or open flame; do not incinerate aerosol cans
OTHER PRECAUTIONS	Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.



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