

**Section I -- PRODUCT & COMPANY IDENTIFICATION**

**PRODUCT NUMBER** E404  
**PRODUCT NAME** Battery Cleaner and Acid Detector  
**HMIS CODES** Health: 2, Flammability: 4, Reactivity: 0

**MANUFACTURER'S NAME**

The Noco® Company  
 Cleveland, OH 44122

**EMERGENCY TELEPHONE NO.**

(800) 424-9300

**INFORMATION TELEPHONE NO.**

(800) 456-6626

**DATE OF PREPARATION**

25-FEBRUARY-08

**Section II -- COMPOSITION/INFORMATION ON INGREDIENTS**

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
3	74-98-6	Propane		
		ACGIH TLV	2500 ppm	760 mm
		OSHA PEL	1000 ppm	
7	106-97-8	Butane		
		ACGIH TLV	800 ppm	760 mm
		OSHA PEL	800 ppm	
6	67-63-0	2-Propanol		
		ACGIH TLV	400 ppm	33 mm
		ACGIH TLV	500 ppm STEL	
		OSHA PEL	400 ppm	
		OSHA PEL	500 ppm STEL	
1	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 mg/m <sup>3</sup>	
		OSHA PEL	150 ppm	

**Section III -- HAZARDOUS IDENTIFICATION****ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
 EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

Irritation of eyes, skin and upper respiratory system.  
 May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.  
 Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

---

### Section IV -- FIRST AID MEASURES

---

<b>If INHALED:</b>	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
<b>If on SKIN:</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>If in EYES:</b>	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
<b>If SWALLOWED:</b>	Do not induce vomiting. Get medical attention immediately.

---

### Section V -- FIRE FIGHTING MEASURES

---

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>
Propellant <0 °F	1.9	12.7

#### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode (due to the build-up of pressure) when exposed to extreme heat.  
 Application to hot surfaces requires special precautions.  
 During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent.  
 Obtain medical attention.

#### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.  
 Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

---

### Section VI -- ACCIDENTAL RELEASE MEASURES

---

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

---

### Section VII -- HANDLING AND STORAGE

---

#### STORAGE CATEGORY

Not Available

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.  
 During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.  
 Consult NFPA Code. Use approved Bonding and Grounding procedures.  
 Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120 °F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

---

### Section VIII -- EXPOSURE CONTROLS/PERSONAL PROTECTION

---

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.  
 Avoid contact with skin and eyes.  
 Avoid breathing vapor and spray mist.  
 Wash hands after using.

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

#### PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**Section IX -- PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	7.70 lb/gal	922 g/l
<b>SPECIFIC GRAVITY</b>	0.93	
<b>BOILING POINT</b>	<0 - 213 °F	<-18 - 100 °C
<b>MELTING POINT</b>	Not available	
<b>VOLATILE VOLUME</b>	98 %	
<b>EVAPORATION RATE</b>	Faster than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>VOLATILE ORGANIC COMPOUNDS</b> (VOC Theoretical) Volatile weight	15.90%	Less Water and Federally Exempt Solvents

**Section X -- STABILITY AND REACTIVITY**

<b>STABILITY</b>	Stable
<b>CONDITIONS TO AVOID</b>	None known
<b>INCOMPATIBILITY</b>	None known
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	By fire: Carbon Dioxide, Carbon Monoxide
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur

**Section XI -- TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDOUS**

No ingredient in this product is an IARC, NTP or OSHA list carcinogen. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
74-98-6	Propane			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
106-97-8	Butane			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available
67-63-0	2-Propanol			
	LC50	RAT	4HR	Not Available
	LD50	RAT		5045 mg/kg

**Section XII -- ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available

**Section XIII -- DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulation regarding pollution.

**Section XIV -- TRANSPORT INFORMATION**

No data available

---

**Section XV -- REGULATORY INFORMATION**

---

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

<b>CAS No.</b>	<b>CHEMICAL/COMPOUND</b>	<b>% by WT</b>	<b>% Element</b>
----------------	--------------------------	----------------	------------------

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C)

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

---

**Section XVI -- OTHER INFORMATION**

---

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formatted, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.