

Section I -- PRODUCT & COMPANY IDENTIFICATION

PRODUCT NUMBER E1009

PRODUCT NAME Restore® Black Battery Reconditioner

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

15-MARCH-2011

Section II -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
14	74-98-6	Propane ACGIH TLV OSHA PEL	2500 ppm 1000 ppm	760 mm
13	106-97-8	Butane ACGIH TLV OSHA PEL	800 ppm 800 ppm	760 mm
14	127-18-4	Tetrachloroethylene ACGIH TLV ACGIH TLV OSHA PEL	25 ppm 100 ppm STEL 25 ppm	18 mm
8	108-88-3	Toluene ACGIH TLV OSHA PEL OSHA PEL	50 ppm (skin) 100 ppm (skin) 150 ppm (skin) STEL	22 mm
2	100-41-4	Ethylbenzene ACGIH TLV ACGIH TLV OSHA PEL OSHA PEL	100 ppm 125 ppm STEL 100 ppm 125 ppm STEL	7.1 mm
14	1330-20-7	Xylene ACGIH TLV ACGIH TLV OSHA PEL OSHA PEL	100 ppm 150 ppm STEL 100 ppm 150 ppm STEL	5.9 mm
22	67-64-1	Acetone ACGIH TLV ACGIH TLV OSHA PEL	500 ppm 750 ppm STEL 1000 ppm	180 mm
2	123-86-4	n-Butyl Acetate ACGIH TLV ACGIH TLV OSHA PEL OSHA PEL	150 ppm 200 ppm STEL 150 ppm 200 ppm STEL	10 mm
1	1333-86-4	Carbon Black ACGIH TLV OSHA PEL	3.5 mg/m ³ 150 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

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

Section V -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant <0 °F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode 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.

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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

PRODUCT WEIGHT	6.51 lb/gal/780 g/l
SPECIFIC GRAVITY	0.78
BOILING POINT	<0 - 292 °F
MELTING POINT	Not available
VOLATILE VOLUME	92 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
VOLATILE ORGANIC COMPOUNDS	
(VOC Theoretical) Volatile weight	53.52% Less Water and Federally Exempt Solvents

Section X -- STABILITY AND REACTIVITY

STABILITY	Stable
CONDITIONS TO AVOID	None known
INCOMPATIBILITY	None known
HAZARDOUS DECOMPOSITION PRODUCTS	By fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride
HAZARDOUS POLYMERIZATION	Will not occur

Section XI -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDOUS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Tetrachloroethylene, listed by NTP and IARC as an animal carcinogen and by OSHA as a potential human carcinogen, produced liver tumors and leukemia in rats and lung tumors in mice. Human epidemiological evidence is conflicting and inconclusive.

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
127-18-4	Tetrachloroethylene			
	LC50	RAT	4HR	Not Available
	LD50	RAT		2630 mg/kg
108-88-3	Toluene			
	LC50	RAT	4HR	4000 ppm
	LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene			
	LC50	RAT	4HR	Not Available
	LD50	RAT		3500 mg/kg
1330-20-7	Xylene			
	LC50	RAT	4HR	5000 ppm
	LD50	RAT		4300 mg/kg
67-64-1	Acetone			
	LC50	RAT	4HR	Not Available
	LD50	RAT		5800 mg/kg
123-86-4	n-Butyl Acetate			
	LC50	RAT	4HR	2000 ppm
	LD50	RAT		13100 mg/kg
1333-86-4	Carbon Black			
	LC50	RAT	4HR	Not Available
	LD50	RAT		Not Available

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**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
127-18-4	Tetrachloroethylene	14	
108-88-3	Toluene	8	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	14	

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.