Section 1 Identification.

Product name:
NOCO® Battery Clean-Up

Product code:
M403

Other means of identification:	Not available.
Recommended use:	Apply to battery post to clean battery corrosion and prolong battery life.
Manufacturer:	The NOCO Company Glenwillow, OH 44139
Emergency telephone number of the company:	PER (800) 633-8253 USA/CANADA
Information telephone number of the company:	(800) 456-6626 Mon-Fri 8:00am to 5:00pm MST

Section 2 Hazards identification.

Classification of the substance or mixture:	Flam. Liq. 2; H225 Eye Dam. 1;H318	Highly Flammable liquid and vapor. Causes serious eye damage.

GHS label elements:

Hazard pictograms:

Highly flammable liquid and vapor.
Causes serious eye damage.

Prevention:
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Keep cool.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Response:
IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
Immediately call a POISON CENTER or doctor / physician.
In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.
Wear protective gloves / eye protection / face protection.

Storage: Store in a well ventilated place. Keep container tightly closed.

Disposal: Dispose of contents / container in accordance with local / national regulations.

Signal Word: Danger

Section 3 Composition/information on ingredients.

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

% by weight	CAS Number	INGREDIENT	GHS Classification	Notes
10-25	0000067-63-0	Isopropyl Alcohol	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1] [2]
1.0-10	0000144-55-8	Sodium Bicarbonate	Not Classified	[1]
1.0-10	0010024-97-2	Nitrogen Oxide (N20)	Not Classified	[1] [2]
1.0-10	0009036-19-5	Octylphenoxypolyethoxyethanol	Acute Tox. 4;H302 Eye Dam. 1;H318 Aquatic Chronic 2;H411	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

Section 4 First aid measures.

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eye Contact: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Inhalation: If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed.

Symptoms of Exposure: Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Existing Medical Conditions Generally Aggravated by Exposure: Pre-existing medical conditions of the following organ or organ system may be aggravated by exposure to this material: skin, eyes, respiratory tract.

Section 3 Composition/information on ingredients.

Inhalation: Fumes and mists may irritate the upper respiratory tract. Overexposure may cause headache, dizziness, loss of coordination and nausea.

Skin Contact: Direct contact may cause severe irritation and may cause burns. May be absorbed through the skin.

Ingestion: Toxic if swallowed. If appreciable quantities are swallowed call physician or Poison Control Center.

Eye Contact: Vapors may be irritating to the eye. Immediately flush with water. Consult a physician. Health Hazards (Acute and Chronic) Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Eyes: Causes serious eye damage.

Section 5 Firefighting measures.

Extinguishing media: Regular foam, alcohol foam, carbon dioxide, and dry chemical.

Special hazards arising from the substance or mixture: Hazardous decomposition: This product may release carbon dioxide and carbon monoxide if heated to decomposition. Oxides of nitrogen.
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Keep cool.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Advice for fire-fighters: Excessive heat due to fire may cause rupture or explosion of cans.

Section 6 Accidental release measures.

Personal precautions, protective equipment and emergency procedures: Put on appropriate personal protective equipment (see section 8).

Section 3 Composition/information on ingredients.

Environmental precautions: Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up: Do not dump into any sewers, on the ground or into any body of water. Do not puncture or incinerate can. Dispose of container and any unused contents in accordance with Federal, State and Local Waste disposal regulations.

Section 7 Handling and storage.

Precautions for safe handling: Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.
See section 2 for further details. - [Prevention]:

Conditions for safe storage, including any incompatibilities: Use with adequate ventilation. Do not spray near open flames or sparks. Avoid general mists. Do not inhale fumes or mists of this product. Avoid breathing vapors produced by heating. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Contaminated clothing should be disposed of properly. Store in a dry, well-ventilated area out of direct sunlight and away from heat and ignition.

Incompatible materials: This product can react vigorously with oxidizing materials.
Incompatible with bases and acids.
See section 2 for further details. - [Storage]:

Specific end use(s): No data available.

Section 8 Exposure controls/personal protection.

Control parameters:

0000067-63-0	Isopropyl Alcohol	OSHA	TWA 400 ppm (980 mg/m3)STEL 500 ppm
		ACGIH	TWA: 200 ppm STEL: 400 ppm Revised 2003,
		NIOSH	TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)
		Supplier	No Established Limit
0000144-55-8	Sodium Bicarbonate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0009036-19-5	Octylphenoxypolye-thoxyethanol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0010024-97-2	Nitrogen oxide (N2O)	OSHA	No Established Limit
		ACGIH	TWA: 25 ppmR
		NIOSH	TWA 25 ppm (46 mg/m3) (TWA over the time exposed) [*Note: REL for exposure to waste anesthetic gas.]
		Supplier	No Established Limit

Carcinogen Data:

0000067-63-0	Isopropyl Alcohol	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0000144-55-8	Sodium Bicarbonate	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0009036-19-5	Octylphenoxypolye-thoxyethanol	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0010024-97-2	Nitrogen oxide (N2O)	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

Exposure controls:

Respiratory: If engineering controls and work practices are not effective in controlling exposure to this material, then wear a suitable NIOSH/MSHA approved chemical cartridge respirator or Supplied Air Respirator (SAR) as needed to control exposure.

Eyes: Wear chemical safety glasses with side shields.

Skin: Wear chemical protective gloves and clothing to prevent skin contact.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

Section 9 Physical and chemical data.

Appearance:	Yellow liquid
Odor:	Alcohol Odor
Odor Threshold:	Not determined.
pH:	Not measured.
Melting point/freezing point:	Not measured.
Initial boiling point and boiling range:	Not measured.
Flash point:	>54F (Based on Isopropyl Alcohol)
Evaporation Rate (Ether = 1):	Not meausred
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	Lower Explosive Limit: 2.0 Upper Explosive Limit: 12.7
Vapor Pressure (Pa):	Not measured.
Vapor Density:	Not measured.
Specific Gravity:	0.92
Solubility in Water:	Soluble
Partition coefficient n-octanol/water (Log Kow):	Not measured.
Auto-ignition Temperature:	>750F (Based on Isopropyl Alcohol)
Decomposition Temperature:	Not measured.
Viscosity (cSt):	Not measured.
VOC Content:	13% By Volume
Weight per Gallon:	7.70 lbs
Volatile Weight per Gallon:	1lb/gl

Section 10 Stability and reactivity data.

Reactivity:	Hazardous Polymerization will not occur.
Chemical stability:	Stable under normal circumstances.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Keep from contact with oxidizing materials, sparks, and open flame. Keep out of Reach of Children.
Incompatible materials:	This product can react vigorously with oxidizing materials. Incompatible with bases and acids.
Hazardous decomposition products:	This product may release carbon dioxide and carbon monoxide if heated to decomposition. Oxides of nitrogen.

Section 11 Toxicological information.

Acute toxicity:

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient:	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/ Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Isopropyl Alcohol - (67-63-0)	4,710.00, Rat - Category: 5	12,800.00, Rat - Category: NA	72.60, Rat - Category: NA	No data available	No data available
Sodium Bicarbonate - (144-55-8)	4,220.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Nitrogen oxide (N2O) - (10024-97-2)	No data available	No data available	No data available	No data available	No data available
Octylphenoxypolyethoxyethanol - (9036-19-5)	3,800.00, Rat - Category: 5	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification:	Category:	Hazard Description:
Acute toxicity (oral)	-	Not Applicable
Acute toxicity (dermal)	-	Not Applicable
Acute toxicity (inhalation)	-	Not Applicable
Skin corrosion/irritation	-	Not Applicable
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	-	Not Applicable
Skin sensitization	-	Not Applicable
Germ cell mutagenicity	-	Not Applicable
Carcinogenicity	-	Not Applicable
Reproductive toxicity	-	Not Applicable
STOT-single exposure	-	Not Applicable
STOT-repeated exposure	-	Not Applicable
Aspiration hazard	-	Not Applicable

Section 12 Ecological information.

Toxicity:

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity:

Ingredient:	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Isopropyl Alcohol - (67-63-0)	1,400.00, Lepomis macrochirus	100.00, Daphnia magna	.00 (72 hr), Scenedesmus subspicatus
Sodium Bicarbonate - (144-55-8)	Not Available	Not Available	Not Available
Nitrogen oxide (N2O) - (10024-97-2)	Not Available	Not Available	Not Available
Octylphenoxypolyethoxyethanol - (9036-19-5)	7.20, Oncorhynchus mykiss	8.60, Daphnia magna	0.21 (96 hr), Pseudokirch-neriella subcapitata
1.0-10	0009036-19-5	Octylphenoxypolyethoxyetha-nol	Acute Tox. 4;H302 Eye Dam. 1;H318 Aquatic Chronic 2;H411

Persistence and degradability:	Octylphenol ethoxylates are extensively biodegraded in laboratory screening tests, but do not meet the stringent criteria for classification as readily biodegradable. These substances are inherently biodegradable to carbon dioxide and water, and numerous studies have shown that under conditions in which sufficient oxygen, nutrients, and microorganism concentrations occur, such as in soils, surface waters, and well-functioning wastewater-treatment facilities, the substances are extensively biodegraded. Treatment efficiencies vary, although most facilities typically remove between 80 and 90% (through a combination of biodegradation and adsorption).
Bioaccumulative potential:	Not Measured.
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	This product contains no PBT/vPvB chemicals.

Section 13 Disposal considerations.

Waste treatment methods:	Do not dump into any sewers, on the ground or into any body of water. Do not puncture or incinerate can. Dispose of container and any unused contents in accordance with Federal, State and Local Waste disposal regulations.

Section 14 Transport information.

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	- 	- 	- 	- 	- 
Environmental hazards	No.	No.	No.	No.	No.
Additional Information	Special provisions LIMITED QUANTITY	Special provisions LIMITED QUANTITY	Special provisions (ERG#126)	Special provisions LIMITED QUANTITY	Emergency schedules (EmS) LIMITED QUANTITY, F-D, S-U

Special precautions for user:	Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not available.

Section 15 Regulatory information.

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA):	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification:	B2 D2B E
US EPA Tier II Hazards:	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No
EPCRA 311/312 Chemicals and RQs:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 302 Extremely Hazardous:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	Isopropyl Alcohol
Proposition 65 - Carcinogens (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Developmental Toxins (>0.0%):	Nitrogen oxide (N2O)
Proposition 65 - Female Repro Toxins (>0.0%):	Nitrogen oxide (N2O)
Proposition 65 - Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
New Jersey RTK Substances (>1%):	Isopropyl Alcohol Nitrogen oxide (N2O)
Pennsylvania RTK Substances (>1%):	Isopropyl Alcohol Nitrogen oxide (N2O)

Section 16 Other information.

Prepared on: June 2, 2015

Revised on: August 9, 2019

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Highly flammable liquid and vapor.
Harmful if swallowed.
Causes serious eye damage.
Causes serious eye irritation.
May cause drowsiness and dizziness.
Harmful to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

All information, recommendations and suggestions appearing herein concerning our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for his/her own use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained or the safety and toxicity of the product: nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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