

NAPA MAC'S BATTERY TERMINAL CLEANER 13 OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : NAPA MAC'S BATTERY TERMINAL CLEANER 13 OZ.
Product code : 1075

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Battery Terminal Cleaner

1.3. Details of the supplier of the safety data sheet

NAPA Auto Parts
2999 Wildwood Pkwy
Atlanta, GA 30339
T 678-934-5000

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Gases under pressure Compressed gas H280 Contains gas under pressure; may explode if heated
Germ cell mutagenicity Category 1B H340 May cause genetic defects
Carcinogenicity Category 1A H350 May cause cancer

Full text of H- and EUH-statements: see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H280 - Contains gas under pressure; may explode if heated
H340 - May cause genetic defects
H350 - May cause cancer

Precautionary statements (GHS US) :

P201 - Obtain special instructions
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

2.3. Other hazards

Other hazards which do not result in classification : Contains gas under pressure; may explode if heated. None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|-------|---------------------|---------|-----------------------|
| Water | (CAS-No.) 7732-18-5 | 85 – 95 | Not classified |

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| Name | Product identifier | % | GHS US classification |
|---------------------------------------|-----------------------|----------|--|
| Petroleum Gases, Liquefied, Sweetened | (CAS-No.) 68476-86-8 | 5 – 10 | Flam. Gas 1, H220 Press. Gas (Comp.), H280 Muta. 1B, H340 Carc. 1A, H350 |
| Sodium Bicarbonate | (CAS-No.) 144-55-8 | 1 – 5 | Not classified |
| Complex Carboxylic Acid Derivative | (CAS-No.) Proprietary | 0.95 – 1 | Not classified |
| 2-Butoxyethanol | (CAS-No.) 111-76-2 | < 1 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| Polyethylene Glycol 200-600 | (CAS-No.) 25322-68-3 | ≤ 0.028 | Not classified |
| Triethanolamine | (CAS-No.) 102-71-6 | < 0.02 | Not classified |
| 2-Aminoethanol | (CAS-No.) 141-43-5 | < 0.02 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1, H314 |
| Nonyl Nonoxynol-5 | (CAS-No.) 9014-93-1 | ≤ 0.019 | Not classified |
| 1,4-Dioxane | (CAS-No.) 123-91-1 | ≤ 0 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 |
| Ethylene Oxide | (CAS-No.) 75-21-8 | ≤ 0 | Flam. Gas 1, H220 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H336 STOT SE 3, H335 STOT RE 1, H372 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : May cause slight irritation . May cause moderate irritation. Itching. Red skin. Skin rash/inflammation. |
| Symptoms/effects after eye contact | : May cause slight eye irritation . May cause severe irritation. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue. |
| Symptoms/effects after ingestion | : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

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Other information : NFPA Aerosol Level 1.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Plug the leak, cut off the supply. Contain released product, collect/pump into suitable containers.

Methods for cleaning up : Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Take off immediately all contaminated clothing and wash it before reuse. Observe normal hygiene standards. Keep container tightly closed. Observe strict hygiene. Reduce/avoid exposure and/or contact. Observe very strict hygiene - avoid contact. Avoid prolonged and repeated contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)

Follow Label Directions.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|---|---|
| NAPA MAC'S BATTERY TERMINAL CLEANER 13 OZ. | |
| No additional information available | |
| Polyethylene Glycol 200-600 (25322-68-3) | |
| No additional information available | |
| Nonyl Nonoxynol-5 (9014-93-1) | |
| No additional information available | |
| 1,4-Dioxane (123-91-1) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 20 ppm |
| Ethylene Oxide (75-21-8) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 1 ppm |
| Sodium Bicarbonate (144-55-8) | |
| No additional information available | |
| 2-Butoxyethanol (111-76-2) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 97 mg/m ³ |
| ACGIH OEL TWA [ppm] | 20 ppm (2-Butoxyethanol (EGBE); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| USA - OSHA - Occupational Exposure Limits | |
| OSHA PEL (TWA) [1] | 240 mg/m ³ |
| OSHA PEL (TWA) [2] | 50 ppm |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL (TWA) | 24 mg/m ³ |
| NIOSH REL TWA [ppm] | 5 ppm |
| Water (7732-18-5) | |
| No additional information available | |
| Petroleum Gases, Liquefied, Sweetened (68476-86-8) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4 |
| USA - OSHA - Occupational Exposure Limits | |
| OSHA PEL (TWA) [1] | 1800 mg/m ³ |
| OSHA PEL (TWA) [2] | 1000 ppm |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL (TWA) | 1800 mg/m ³ |
| NIOSH REL TWA [ppm] | 1000 ppm |
| Complex Carboxylic Acid Derivative (Proprietary) | |
| No additional information available | |
| Triethanolamine (102-71-6) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 mg/m ³ |
| 2-Aminoethanol (141-43-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 3 ppm |
| ACGIH OEL STEL [ppm] | 6 ppm |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Local exhaust ventilation, vent hoods . Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Avoid all unnecessary exposure.

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Materials for protective clothing:

Excellent resistance:

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Gas |
| Appearance | : Liquid. |
| Color | : Yellow to Orange. |
| Odor | : Mild. |
| Odor threshold | : No data available |
| pH | : 7.5 – 9.5 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 1.02 |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Partition coefficient n-octanol/water (Log Kow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosion limits | : No data available |

9.2. Other information

| | |
|-------------|------------------|
| VOC content | : 7.9 % |
| Gas group | : Compressed gas |

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Polyethylene Glycol 200-600 (25322-68-3) | |
|---|---|
| LD50 oral rat | > 15000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 20000 mg/kg (Rabbit, Dermal) |
| 1,4-Dioxane (123-91-1) | |
| LC50 Inhalation - Rat | > 155 mg/l (Equivalent or similar to OECD 403, 1 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| Ethylene Oxide (75-21-8) | |
| LD50 oral rat | 330 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Aqueous solution, Oral, 14 day(s)) |
| LC50 Inhalation - Rat [ppm] | 1741 ppm (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (gases), 14 day(s)) |
| ATE US (oral) | 100 mg/kg body weight |
| ATE US (gases) | 1741 ppmV/4h |
| ATE US (vapors) | 3 mg/l/4h |
| ATE US (dust, mist) | 0.5 mg/l/4h |
| Sodium Bicarbonate (144-55-8) | |
| LD50 oral rat | > 4000 mg/kg (FIFRA (40 CFR), Rat, Male / female, Experimental value, Oral) |
| LC50 Inhalation - Rat | > 4.74 mg/l (EPA OTS 798.1150: Acute inhalation toxicity, 4.5 h, Rat, Male / female, Experimental value, Inhalation, 14 day(s)) |
| 2-Butoxyethanol (111-76-2) | |
| LD50 oral rat | 1300 mg/kg |
| LD50 dermal rat | > 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity) |
| LD50 dermal rabbit | 435 mg/kg (435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value,435 mg/kg bodyweight; Rabbit; Rabbit; Experimental value) |
| LC50 Inhalation - Rat | 2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value) |
| LC50 Inhalation - Rat [ppm] | 450-486,Rat; Weight of evidence |
| ATE US (oral) | 1300 mg/kg body weight |
| ATE US (dermal) | 435 mg/kg body weight |
| ATE US (vapors) | 2.17 mg/l/4h |
| ATE US (dust, mist) | 2.17 mg/l/4h |
| Triethanolamine (102-71-6) | |
| LD50 oral rat | 6400 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 7 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal, 14 day(s)) |
| ATE US (oral) | 6400 mg/kg body weight |
| 2-Aminoethanol (141-43-5) | |
| LD50 oral rat | 1089 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 1018 mg/kg (24 h, Rabbit, Inconclusive, insufficient data, Dermal) |
| LC50 Inhalation - Rat | > 1.3 mg/l air (6 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (vapours)) |

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| 2-Aminoethanol (141-43-5) | |
|----------------------------------|------------------------|
| ATE US (oral) | 1089 mg/kg body weight |
| ATE US (dermal) | 1018 mg/kg body weight |
| ATE US (dust, mist) | 1.5 mg/l/4h |

| | |
|-----------------------------------|-----------------------------------|
| Skin corrosion/irritation | : Not classified pH: 7.5 – 9.5 |
| Serious eye damage/irritation | : Not classified pH: 7.5 – 9.5 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : May cause genetic defects. |
| Carcinogenicity | : May cause cancer. |

| 1,4-Dioxane (123-91-1) | |
|--|---|
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |

| Ethylene Oxide (75-21-8) | |
|--|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | Known Human Carcinogens |

| 2-Butoxyethanol (111-76-2) | |
|-----------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| Triethanolamine (102-71-6) | |
|-----------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

| 1,4-Dioxane (123-91-1) | |
|-------------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

| Ethylene Oxide (75-21-8) | |
|---------------------------------|--|
| STOT-single exposure | May cause drowsiness or dizziness. May cause respiratory irritation. |

| | |
|------------------------|------------------|
| STOT-repeated exposure | : Not classified |
|------------------------|------------------|

| Ethylene Oxide (75-21-8) | |
|---------------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

| | |
|---|--|
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : May cause slight irritation . May cause moderate irritation. Itching. Red skin. Skin rash/inflammation. |
| Symptoms/effects after eye contact | : May cause slight eye irritation . May cause severe irritation. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue. |
| Symptoms/effects after ingestion | : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways. |

SECTION 12: Ecological information

12.1. Toxicity

| Polyethylene Glycol 200-600 (25322-68-3) | |
|---|---------------------------------------|
| LC50 - Fish [1] | > 5000 mg/l (24 h, Carassius auratus) |

| 1,4-Dioxane (123-91-1) | |
|-------------------------------|--|
| LC50 - Fish [1] | 10800 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | > 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Nominal concentration) |

| Ethylene Oxide (75-21-8) | |
|---------------------------------|---|
| LC50 - Fish [1] | 84 mg/l (EPA 660/3 - 75/009, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Lethal) |
| ErC50 algae | 240 mg/l (EPA 660/3 - 75/009, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) |

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| Sodium Bicarbonate (144-55-8) | |
|--------------------------------------|---|
| LC50 - Fish [1] | 7100 mg/l (EPA OPP 72-1, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 4100 mg/l (EPA OPP 72-2, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, GLP) |
| Triethanolamine (102-71-6) | |
| LC50 - Fish [1] | 11800 mg/l (APHA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | 609.88 mg/l (ASTM E1192, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Experimental value, Lethal) |
| ErC50 algae | 216 mg/l (DIN 38412-9, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| 2-Aminoethanol (141-43-5) | |
| LC50 - Fish [1] | 349 mg/l (EU Method C.1, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 27 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 algae | 2.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

12.2. Persistence and degradability

| NAPA MAC'S BATTERY TERMINAL CLEANER 13 OZ. | |
|---|---|
| Persistence and degradability | Not established. |
| Polyethylene Glycol 200-600 (25322-68-3) | |
| Persistence and degradability | Biodegradability in water: no data available. Not established. |
| Nonyl Nonoxynol-5 (9014-93-1) | |
| Persistence and degradability | Not established. |
| 1,4-Dioxane (123-91-1) | |
| Persistence and degradability | Not readily biodegradable in water. Non degradable in the soil. Photooxidation in the air. Not established. |
| BOD (% of ThOD) | 0 |
| Ethylene Oxide (75-21-8) | |
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.06 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.74 g O ₂ /g substance |
| ThOD | 2.02 g O ₂ /g substance |
| Sodium Bicarbonate (144-55-8) | |
| Persistence and degradability | Biodegradability: not applicable. Not established. |
| ThOD | Not applicable (inorganic) |
| 2-Butoxyethanol (111-76-2) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 0.71 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.2 g O ₂ /g substance |
| ThOD | 2.305 g O ₂ /g substance |
| BOD (% of ThOD) | 0.31 |
| Water (7732-18-5) | |
| Persistence and degradability | Not established. |
| Petroleum Gases, Liquefied, Sweetened (68476-86-8) | |
| Persistence and degradability | Not established. |
| Complex Carboxylic Acid Derivative (Proprietary) | |
| Persistence and degradability | Not established. |
| Triethanolamine (102-71-6) | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. Not established. |
| Biochemical oxygen demand (BOD) | 0.02 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.5 g O ₂ /g substance |
| ThOD | 2.04 g O ₂ /g substance |
| 2-Aminoethanol (141-43-5) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Not established. |
| Biochemical oxygen demand (BOD) | 0.8 g O ₂ /g substance |

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| 2-Aminoethanol (141-43-5) | |
|----------------------------------|------------------------------------|
| Chemical oxygen demand (COD) | 1.34 g O ₂ /g substance |
| ThOD | 2.49 g O ₂ /g substance |

12.3. Bioaccumulative potential

| NAPA MAC'S BATTERY TERMINAL CLEANER 13 OZ. | |
|---|---|
| Bioaccumulative potential | Not established. |
| Polyethylene Glycol 200-600 (25322-68-3) | |
| Partition coefficient n-octanol/water (Log Pow) | -1.2 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |
| Nonyl Nonoxynol-5 (9014-93-1) | |
| Bioaccumulative potential | Not established. |
| 1,4-Dioxane (123-91-1) | |
| BCF - Fish [1] | 0.2 – 0.7 (OECD 305: Bioconcentration: Flow-Through Fish Test, Cyprinus carpio, Flow-through system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | -0.42 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). Not established. |
| Ethylene Oxide (75-21-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.3 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |
| Sodium Bicarbonate (144-55-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -4.01 (Estimated value) |
| Bioaccumulative potential | Not bioaccumulative. Not established. |
| 2-Butoxyethanol (111-76-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.81 (Experimental value; BASF test; 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| Water (7732-18-5) | |
| Bioaccumulative potential | Not established. |
| Petroleum Gases, Liquefied, Sweetened (68476-86-8) | |
| Bioaccumulative potential | Not established. |
| Complex Carboxylic Acid Derivative (Proprietary) | |
| Bioaccumulative potential | Not established. |
| Triethanolamine (102-71-6) | |
| BCF - Fish [1] | 0.4 – 3.9 l/kg (Equivalent or similar to OECD 305, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | -1.9 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). Not established. |
| 2-Aminoethanol (141-43-5) | |
| Partition coefficient n-octanol/water (Log Pow) | -2.3 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

12.4. Mobility in soil

| 1,4-Dioxane (123-91-1) | |
|--|--|
| Surface tension | 37 mN/m (20 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.42 (log Koc, SRC PCKOCWIN v2.0, Estimated value) |
| Ecology - soil | Highly mobile in soil. |
| Ethylene Oxide (75-21-8) | |
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.51 – 0.67 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| Sodium Bicarbonate (144-55-8) | |
| Ecology - soil | No (test)data on mobility of the substance available. |
| 2-Butoxyethanol (111-76-2) | |
| Surface tension | 0.027 N/m (25 °C) |

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| Triethanolamine (102-71-6) | |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.06 – 1.27 (log Koc, SRC PCKOCWIN v1.66, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| 2-Aminoethanol (141-43-5) | |
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.16 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

12.5. Other adverse effects

Effect on global warming : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. . Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

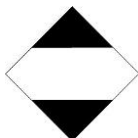
US DOT (ground) (DOT) : UN1950 Aerosols, Non-flammable (Non-flammable, (each not exceeding 1 L capacity)), 2.2, Limited Quantity

UN-No.(DOT) : UN1950

Proper Shipping Name (DOT) : Aerosols, Non-flammable
Non-flammable, (each not exceeding 1 L capacity)

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : LTD QTY - Limited quantity



DOT Packaging Non Bulk (49 CFR 173.xxx) : None

DOT Packaging Bulk (49 CFR 173.xxx) : None

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 48 - Stow "away from" sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Other information : No supplementary information available.

Transport by sea

UN-No. (IMDG) : 1950

Proper Shipping Name (IMDG) : Aerosols, Non-flammable

Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

Air transport

UN-No. (IATA) : 1950

Proper Shipping Name (IATA) : Aerosols, Non-flammable

Class (IATA) : 2.2 - Gases : Non-flammable, non-toxic

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Hazard labels (IATA)

: LTD QTY - Limited Quantity



SECTION 15: Regulatory information

15.1. US Federal regulations

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| | |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Sudden release of pressure hazard |
|-------------------------------------|--|

Polyethylene Glycol 200-600 (25322-68-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |
|--------------------------|---|

Nonyl Nonoxynol-5 (9014-93-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |
|--------------------------|---|

1,4-Dioxane (123-91-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

| | |
|-----------|--------|
| CERCLA RQ | 100 lb |
|-----------|--------|

| | |
|---------------------------------------|-----|
| SARA Section 313 - Emission Reporting | 1 % |
|---------------------------------------|-----|

Ethylene Oxide (75-21-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

| | |
|-----------|-------|
| CERCLA RQ | 10 lb |
|-----------|-------|

| | |
|--|---------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb |
|--|---------|

| | |
|---------------------------------------|-----|
| SARA Section 313 - Emission Reporting | 1 % |
|---------------------------------------|-----|

Sodium Bicarbonate (144-55-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Butoxyethanol (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard |
|-------------------------------------|---|

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Petroleum Gases, Liquefied, Sweetened (68476-86-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire hazard Sudden release of pressure hazard |
|-------------------------------------|---|

Complex Carboxylic Acid Derivative (Proprietary)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Triethanolamine (102-71-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Aminoethanol (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

15.2. International regulations

CANADA

NAPA MAC'S BATTERY TERMINAL CLEANER 13 OZ.

| | |
|----------------------|--------------------------|
| WHMIS Classification | Class A - Compressed Gas |
|----------------------|--------------------------|

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| |
|---|
| Polyethylene Glycol 200-600 (25322-68-3) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Nonyl Nonoxynol-5 (9014-93-1) |
| Listed on the Canadian DSL (Domestic Substances List) |
| 1,4-Dioxane (123-91-1) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Ethylene Oxide (75-21-8) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Sodium Bicarbonate (144-55-8) |
| Listed on the Canadian DSL (Domestic Substances List) |
| 2-Butoxyethanol (111-76-2) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Water (7732-18-5) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Petroleum Gases, Liquefied, Sweetened (68476-86-8) |
| Listed on the Canadian DSL (Domestic Substances List) |
| Complex Carboxylic Acid Derivative (Proprietary) |
| Triethanolamine (102-71-6) |
| Listed on the Canadian DSL (Domestic Substances List) |
| 2-Aminoethanol (141-43-5) |
| Listed on the Canadian DSL (Domestic Substances List) |

EU-Regulations

| |
|---|
| Nonyl Nonoxynol-5 (9014-93-1) |
| 1,4-Dioxane (123-91-1) |
| Ethylene Oxide (75-21-8) |
| Sodium Bicarbonate (144-55-8) |
| 2-Butoxyethanol (111-76-2) |
| Water (7732-18-5) |
| Petroleum Gases, Liquefied, Sweetened (68476-86-8) |
| Complex Carboxylic Acid Derivative (Proprietary) |
| Triethanolamine (102-71-6) |
| 2-Aminoethanol (141-43-5) |

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

| |
|---|
| Nonyl Nonoxynol-5 (9014-93-1) |
| 1,4-Dioxane (123-91-1) |
| Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS) |
| Ethylene Oxide (75-21-8) |
| Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA Hazardous Air Pollutant (HAPS) |
| Sodium Bicarbonate (144-55-8) |
| 2-Butoxyethanol (111-76-2) |
| Water (7732-18-5) |
| Petroleum Gases, Liquefied, Sweetened (68476-86-8) |
| Complex Carboxylic Acid Derivative (Proprietary) |
| Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List) |

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Triethanolamine (102-71-6)

2-Aminoethanol (141-43-5)

15.3. US State regulations

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| | |
|---|------------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | Yes |
| U.S. - California - Proposition 65 - Developmental Toxicity | Yes |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | Yes |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Yes |
| State or local regulations | U.S. - California - Proposition 65 |

Polyethylene Glycol 200-600 (25322-68-3)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Nonyl Nonoxynol-5 (9014-93-1)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

1,4-Dioxane (123-91-1)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | No | No | No | |

Ethylene Oxide (75-21-8)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | Yes | Yes | Yes | |

Sodium Bicarbonate (144-55-8)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

2-Butoxyethanol (111-76-2)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Water (7732-18-5)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Petroleum Gases, Liquefied, Sweetened (68476-86-8)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|---|---|---|---|----------------------------------|

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| Petroleum Gases, Liquefied, Sweetened (68476-86-8) | | | | |
|--|---|---|---|----------------------------------|
| No | No | No | No | |
| Complex Carboxylic Acid Derivative (Proprietary) | | | | |
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| Triethanolamine (102-71-6) | | | | |
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| 2-Aminoethanol (141-43-5) | | | | |
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| 1,4-Dioxane (123-91-1) | | | | |
| State or local regulations | | | | |
| U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List | | | | |
| Ethylene Oxide (75-21-8) | | | | |
| State or local regulations | | | | |
| U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS) U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - West Virginia - Air Quality - Toxic Air Pollutant Emission Limits | | | | |
| 2-Butoxyethanol (111-76-2) | | | | |
| State or local regulations | | | | |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List | | | | |
| Triethanolamine (102-71-6) | | | | |
| State or local regulations | | | | |
| U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | | | | |
| 2-Aminoethanol (141-43-5) | | | | |
| State or local regulations | | | | |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List | | | | |

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

H220

Extremely flammable gas

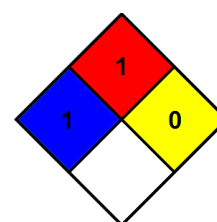
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| | |
|------|--|
| H225 | Highly flammable liquid and vapor |
| H227 | Combustible liquid |
| H280 | Contains gas under pressure; may explode if heated |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |

- NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 1 Slight Hazard
- Physical : 1 Slight Hazard
- Personal protection : B