



SAFETY DATA SHEET
APC - 100
All-Purpose Cleaner Degreaser

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: APC-100

Product Codes(s): APC-100

Synonyms: Aqueous-based cleaner/degreaser

REACH Registration: Some materials in this product have been registered according to Regulation (EC) 1907/2006. The remaining substances in this product have been pre-registered according to Article 2 REACH Regulation (EC) No 1907/2006.

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

General Use: All-purpose cleaner and degreaser

Uses advised against: No uses advised against

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor

Goodway Technologies Corp.

420 West Avenue

Stanford, CT 06902 USA

+1-203-359-4708; Toll free: +1-800-243-7932

1.4 Emergency telephone number: +1-800-424-9300 CHEMTREC

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Mixture

Classification (Regulation (EC) No 1272/2008)

Skin Irritant (Category 2) [315]

Eye Irritant (Category 2B) [H320]

2.2 Label Elements

Labeling (Regulation (EC) No 1272/2008)

Hazard Symbols:



Signal Word:

Warning

Hazard Statement(s):

H315 - Causes skin irritation

H320 - Causes eye irritation

Precautionary Statements:

[Prevention]

P264 - Wash hands or other skin areas contacting this product thoroughly after handling.

P280 - Wear protective gloves and eye protection.

[Response]

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment: Refer to Section 4.2 of this SDS and seek medical attention.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P362 - Take off contaminated clothing and wash before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical characterization (preparation)

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	EC Classification
1 - 5	Nonylphenol, ethoxylate	9016-45-9	265-200-4	-----	-----
1 - 5	2-Butoxyethanol	111-76-2	203-905-0	603-014-00-0	Xn, R22
1 - 5	Silicic acid, disodium salt	6834-92-0	229-912-9	014-010-00-8	C, R34; Xi, R37
1 - 5	Sodium tripolyphosphate anhydrous	7758-29-4	231-838-7	-----	-----
1 - 5	Tetrasodium EDTA	64-02-8	200-573-9	-----	Xn, R22; Xi, R36
1 - 5	Cocamide diethanolamine	68603-42-9	271-657-0	-----	-----
<0.2	Diethanolamine	111-42-2	203-868-0	603-071-00-1	Xn, R22, R48/22; Xi, R38, R41

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or spray causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or become worse, seek medical attention immediately.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. If irritation persists or if you feel unwell, seek medical attention immediately.

Ingestion: Rinse mouth with water. Remove dentures, if any. Do not induce vomiting unless directed to do so by medical personnel. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung damage. Never give anything by mouth to an unconscious person. Get medical attention immediately. Show label if possible.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes eye irritation. Symptoms may include redness, stinging and tearing.

Skin: May cause skin irritation. Symptoms may include redness and burning of skin. Repeated exposure to unprotected skin may cause redness drying and cracking of the skin.

Inhalation: Mist or spray from this product may cause irritation of the nose, throat and lungs.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause headache and dizziness. Repeated ingestion may be harmful, causing damage to the liver and/or kidneys.

Chronic: Pre-existing disorders of the skin and respiratory system may be aggravated by exposure to this product. Prolonged and repeated skin exposure may result in drying or defatting of skin and/or dermatitis. 2-Butoxyethanol is a known animal carcinogen. Cocamide DEA and Diethanolamine are potential human carcinogens. Refer to Section 11.2.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media suitable for surrounding fire.

Unsuitable methods of extinction: None known

5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the build-up of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control run-off water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Ventilate the area.

6.2 Environmental precautions

Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible material such as saw dust. Shovel or sweep up product and place into an approved container for proper disposal. Rinse contaminated area with water.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.

Advice on protection against fire and explosion

No special precautions against fire and explosion are required.

7.2 Conditions for safe storage, including any incompatibilities

Keep in cool, dry, ventilated storage areas in closed containers. Transfer only to approved containers having correct labeling. Containers that have been opened should be carefully resealed and kept upright to prevent leakage. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

CAS Number	Ingredient	OSHA PEL - TWA	ACGIH TLV	NIOSH
111-76-2	2-Butoxyethanol	50 ppm; 240 mg/m ³	50 ppm TWA; 100 mg/m ³ ceiling (aerosol only)	700 ppm
111-42-2	Diethanolamine	-----	1 mg/m ³ TWA	3 ppm; 15 mg/m ³ TWA

8.2 Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into drains.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, red colored liquid
Odor	Mild, solvent
Odor Threshold	No data available
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	10.0 - 11.5
Freezing/Melting Point, Range	Not determined
Initial Boiling Point	100°C (212°F)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Flash Point	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Lower Explosive Limit (LEL)	Not determined
Upper Explosive Limit (UEL)	Not determined
Vapor Pressure	Not determined
Vapor Density	>1 (Air = 1)
Relative Density	1.023 g/ml (8.61 lb/gal)
Viscosity	Not determined
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	Not determined
Volatiles by Volume	~88%

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity has been reported.

Hazardous polymerization will not occur.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid

Extreme temperatures; incompatible materials

10.5 Incompatible materials

Strong oxidizing agents, acids, bases, ammonia, reducing agents, acid chlorides

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, oxides of phosphorus, sodium oxide fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity

Nonylphenol, ethoxylate - LD50, Rat: 3,310 mg/kg

2-Butoxyethanol - LD50, Rat: 1,746 mg/kg

Silicic Acid, disodium salt - LD50, Rat: 1,153 mg/kg

Sodium triphosphate anhydrous - LD50, Rat: 3,120 mg/kg

Acute inhalation toxicity

2-Butoxyethanol - LC50, Rat: 700 ppm, 7 h

Acute dermal toxicity

Nonylphenol, ethoxylate - LD50, Rabbit: >2,000 mg/kg

2-Butoxyethanol - LD50, Rat: >2,000 mg/kg

Sodium tripolyphosphate anhydrous - LD50, Rabbit: >4,640mg/kg

Skin irritation

May cause skin irritation

Eye irritation

Causes eye irritation.

Sensitization

No data available

Genotoxicity in vitro

No data available.

Mutagenicity

No data available

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further information

2-Butoxyethanol (CAS #111-76-2): IARC, Group 3 carcinogen - Not classifiable as to its carcinogenicity to humans. ACGIH, A3 Carcinogen - Confirmed animal carcinogen with unknown relevance to humans. Not listed as a carcinogen by NTP or OSHA.

This product contains <0.2% residual diethanolamine (CAS #111-42-2) which is listed as a Group 2B Carcinogen by IARC - Possibly carcinogenic to humans. Diethanolamine is not identified as a probable, possible, potential or confirmed carcinogen by ACGIH, NTP or OSHA.

RTECS: KL2975000

This product contains <1% Cocoamide DEA (CAS #68603-42-9) which is listed as a Group 2B Carcinogen by IARC - Possibly carcinogenic to humans. Cocamide DEA is not identified as a probable, possible, potential or confirmed carcinogen by ACGIH, NTP or OSHA.

RTECS: GG6200000

The remaining components in this product are not listed as carcinogens by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity and/or teratogenicity of this product, nor is there any available data that indicates that it causes adverse developmental and/or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION**12.1 Toxicity**

2-Butoxyethanol is harmful to algae or higher aquatic plants.

Nonylphenol is a toxic breakdown product of nonylphenol, ethoxylates.

12.2 Persistence and degradability

Product is expected to biodegrade over time.

12.3 Bioaccumulation potential

Nonylphenol, ethoxylate has the potential to bioaccumulate. n-Octanol/water partition coefficient (log Pow) is ~4.48.

The remaining components in this product are not expected to bioaccumulate.

12.4 Mobility

Nonylphenol, ethoxylate absorbs to soil and have low mobility. The remaining components are water soluble and highly mobile in soil.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Additional ecological information**

Do not allow material to run into surface waters, wastewater or soil.

Nonylphenol, Ethoxylate is a marine pollutant. Product may be harmful to the environment if released in large quantities.

SECTION 13 - DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

Product contains <5% Nonylphenol, Ethoxylate, which is a known marine pollutant.

This material is not regulated for transport.

Marine Pollutant: This product contains marine pollutants.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (28 CFR 1910.1200).

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard

SARA 313 Information: 2-Butoxyethanol (CAS #111-76-2) is subject to the reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances: Sodium tripolyphosphate (CAS #7758-29-4), RQ - 2,268 kg (5,000 lbs)

Clean Air Act (CAA)

This product does not contain any chemicals listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

Sodium tripolyphosphate anhydrous (CAS 7758-29-4) is listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:

Cocamide DEA (CAS #68603-42-9) and Diethanolamine (CAS # 111-42-2) are known to the state of California to cause cancer.

Other U.S. State Inventories:

2-Butoxyethanol (CAS #111-76-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/ Air Pollutants lists: CA, ID, MA, MN, NJ, PA, WA, WI.

Sodium tripolyphosphate anhydrous (CAS #7758-29-4) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, MA, NJ, NY, PA

Diethanolamine (CAS #111-42-2) is found on the following State Inventories or Right-to-Know lists: CA, MA, MN, NJ, PA

Canada

WHMIS Hazard Symbol and Classification:



D2B - Eye irritation - Skin irritation

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): 2-Butanol and Diethanolamine are listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): 2-Butoxyethanol, Diethanolamine and Nonylphenol, Ethoxylate are listed on the NPRI.

European Economic Community

Labeling (67/548/EEC to 1999/45/EC)



Xi - Irritant

Risk Phrases: R36/38 - Irritating to eyes and skin.

Safety Phrases: S2 - Keep out of the reach of children.

S24/25 - Avoid contact with skin and eyes.

S37 - Wear suitable gloves.

WGK, Germany (Water danger/protection): 1

Chemical inventory Lists

Country	Inventory Name	Inventory Listing*
Canada:	Domestic Substance List (DSL).	Yes
Canada:	Non-Domestic Substance List (NDSL).	No
Europe:	Inventory of New and Existing Chemicals (EINECS)	Yes
United States:	Toxic Substance Control Act (TSCA)	Yes
Australia:	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand:	New Zealand Inventory of Chemicals (NZIoC)	Yes
China:	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan:	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea:	Existing Chemicals List (ECL)	Yes
Philippines:	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

**"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.
 **"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

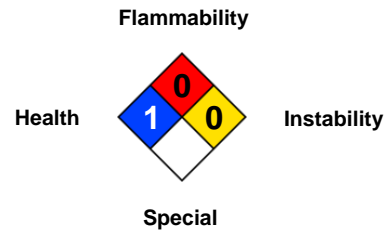
Health	* 1
Flammability	0
Physical Hazard	0
Personal Protection	B



HMIS & NFPA Hazard Rating Legend

* = Chronic Health Hazard 2 = MODERATE
 0 = INSIGNIFICANT 3 = HIGH
 1 = SLIGHT 4 = EXTREME

National Fire Protection Association (NFPA)



Full Text of Risk (R) – Phrases Referenced in Section 3.

R22 - Harmful if swallowed.
 R34 - Causes burns.
 R36 - Irritating to eyes.
 R37 - Irritating to respiratory system.

Goodway assumes no legal responsibility or liability from the described product's use. All chemicals possess unknown potential hazards. The information herein should be used only to supplement the end user's existing knowledge. Read directions for proper use. This SDS was written for the product as packaged. Cleaning Contractors shall comply with all applicable OSHA regulations.

Revision:

Preparation date: 21 March 2013