Safety Data Sheet according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 10/28/2016 Version: 1.0

SECTION 1: Identification		
1.1. Product identifier		
Product form	: Mixture	
Product name	: AEM-1-1000 DRY FLOW FILTER CLEANER	
Product code	: AEM-1-1000 DRY FLOW FILTER CLEANER	
Product group	: Trade product	
1.2. Recommended use and restrictions	on use	
Recommended use	: Industrial use	
1.3. Supplier		
K&N Engineering, Inc. P.O. Box 1329 92502-1329 Riverside, CA - USA T (800) 858-3333 - F (951) 826-4001		
1.4. Emergency telephone number		
Emergency number	: Chemtrec (800) 424-9300 / +1 (703) 527-3887 (CCN 632715)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or m	nixture	
Classification (GHS-CA)		
Skin corrosion/irritation, H314		
Category 1A Serious eye H318 damage/eye irritation, Category 1		
Full text of H statements : see section 16		
2.2. GHS Label elements, including prec	cautionary statements	
GHS-CA labelling		
Hazard pictograms (GHS-CA)	: GH505	
Signal word (GHS-CA)	: Danger	
Hazard statements (GHS-CA)	: H314 - Causes severe skin burns and eye damage	
Precautionary statements (GHS-CA)	 H318 - Causes serious eye damage P260 - Do not breathe dust/fume/gas/mist/vapours/spray P264 - Wash hands, forearms and face thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothi Rinse skin with water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breat P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Rem contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor P321 - Specific treatment (see supplemental first aid instruction on this label) P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 	hing
2.3. Other hazards		
Other hazards not contributing to the classification	: None.	
2.4. Unknown acute toxicity (GHS-CA)		
No data available		
01/11/2016	EN (English)	Page 1

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2.	Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Poly(oxy-1,2-ethanediyl), .alpha sulfoomega(dodecyloxy)-, sodium salt	Dodecyloxypoly(ethyleneoxy) ethyl sulfate, sodium salt / Sodium lauryl ether sulfate / Sodium lauryl ether sulphate / Dodecanol, ethoxylated, monoether with sulfuric acid, sodium salt / Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecanoxy)-, sodium salt / SODIUM LAURETH SULFATE / Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-, sodium salt (1:1) / Sodium polyethoxyethyl dodecylsulfate / Sodium laureth sulfate / Sodium dodecylpoly(oxyethylene) sulfate / SODIUM LAURETH-40 SULFATE / Sodium polyoxyethylene lauryl ether sulfate / .alphaSulfoomega (dodecyloxy)poly(oxyethylene) sodium salt	(CAS No) 9004-82-4	1-5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Ethylenediaminetetraacetic acid	Acetic acid, (ethylenedinitrilo)tetra-/ 3,6-Diazaoctanedioic acid, 3,6- bis(carboxymethyl)-/Edetic acid / EDTA / N,N'-1,2-Ethanediylbis(N- (carboxymethyl)glycine) / Ethylenediamine-N,N,N',N'- tetraacetic acid / Glycine, N,N'-1,2- ethanediylbis[N-(carboxymethyl)-/ Versene / Glycine, N,N'-1,2- ethanediylbis(N-(carboxymethyl)-/ N,N'-Ethane-1,2-diylbis[N- (carboxymethyl)glycine]	(CAS No) 60-00-4	0.1 - 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Call a physician immediately. Seek medical attention if burns develop. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Consult an ophtalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
First-aid measures general	: Call a physician immediately. If you feel unwell, seek medical advice (show the label where possible). Concerning personal protective equipment to use, see section 8.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.
Chronic symptoms	: None known.
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Other medical advice or treatment	: Not applicable.

SECTIO	ON 5: Fire-fighting measures	
5.1.	Suitable extinguishing media	
Suitable e	extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Unsuitable extinguishing media	
Unsuitabl	e extinguishing media	: Do not use a heavy water stream.
5.3.	Specific hazards arising from the haz	ardous product
No additi	onal information available	

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

5.4.	Special protective equipm	ent and precautions for fire-fighters
Firefight	ting instructions	: Exercise caution when fighting any chemical fire.
Protection	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ION 6: Accidental relea	se measures
6.1.	Personal precautions, pro	ective equipment and emergency procedures
General	measures	: Avoid contact with skin and eyes.
6.2.	Methods and materials for	containment and cleaning up
For cont	tainment	: Do not allow to enter into surface water or drains.
Methods	s for cleaning up	: In case of large spillages: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel or sweep up and put in a closed container for disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into

container for disposal. Notify authorities if product enters sewers or public waters.

Other information

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Take all necessary technical measures to avoid or minimize the release of the product on the workplace.
Hygiene measures	: Separate working clothes from town clothes. Wash contaminated clothing before reuse. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible products	: Strong acids. Strong bases.

: Dispose of materials or solid residues at an authorized site.

SECTION 81	Exposure controls/personal	nrotection

8.1. Control parameters		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Ensure good ventilation of the work station.	
8.3. Individual protection measures/Per	sonal protective equipment	
Hand protection	: Chemically resistant protective gloves.	
Eye protection	Chemical goggles or safety glasses. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazard protection	: Not available.	
Environmental exposure controls	: Avoid release to the environment.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Clear, colorless liquid.	
Colour	: Colourless	
Odour	: characteristic	
Odour threshold	: No data available	
рН	: 12 - 13	
pH solution	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Relative evaporation rate (ether=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

3	,
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: Soluble.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivi	ty
10.1. Reactivity	
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Oxidizing agents and reducing agents.
Incompatible materials	: Acids. Bases. Oxidizing agent.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: carbon oxides (CO and CO2).

SECTION 11: Toxicological information		
Likely routes of exposure	: Oral. Dermal.	
11.1. Information on toxicological effect	cts	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-, sodium salt (9004-82-4)			
LD50 oral rat	1600 mg/kg		
Ethylenediaminetetraacetic acid (60-00-4)			
LD50 oral rat	1700 mg/kg		
Skin corrosion/irritation	: Causes severe skin burns and eye damag	ge.	
Serious eye damage/irritation	pH: 12 - 13 : Causes serious eye damage. pH: 12 - 13		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
01/11/2016	EN (English)	SDS ID: 2407	4/8

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 12: Ecological informati	on	
12.1. Toxicity		
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.	
Ethylenediaminetetraacetic acid (60-00-4)	
LC50 fish 1	34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
LC50 fish 2	44.2 - 76.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
12.2. Persistence and degradability		
AEM-1-1000 DRY FLOW FILTER CLEANE	R	
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
AEM-1-1000 DRY FLOW FILTER CLEANE	R	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
AEM-1-1000 DRY FLOW FILTER CLEANE	R	
Ecology - soil	Not established.	
	·	
12.5. Other adverse effects	· Nat astablished	
Effect on the global warming GWPmix comment	: Not established. : No known effects from this product.	
SECTION 13: Disposal considerat	ions	
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Sewage disposal recommendations	: Do not allow into drains or water courses.	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	
SECTION 14: Transport information	on	
14.1. Basic shipping description		
n accordance with TDG		
ſDG		
JN-No. (TDG)	: UN1760	
Packing group	roup : III - Minor Danger	
TDG Primary Hazard Classes	ary Hazard Classes : 8 - Class 8 - Corrosives	
Transport document description	sport document description : UN1760 CORROSIVE LIQUID, N.O.S., 8, III	
	: CORROSIVE LIQUID, N.O.S.	

Hazard labels (TDG)

: 8 - Corrosive substances



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

according to the Hazardous Products Regulation (Februa	
TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306
Explosive Limit and Limited Quantity Index	: 5L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5L
14.2. Transport information/DOT	
DOT	
DOT NA no.	: UN1760
UN-No.(DOT)	: 1760
Packing group (DOT)	: III - Minor Danger
DOT Symbols	: G - Identifies PSN requiring a technical name
Transport document description	: UN1760 Corrosive liquids, n.o.s., 8, III
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s.
Contains Statement Field Selection (DOT)	
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Division (DOT)	: 8
Hazard labels (DOT)	: 8 - Corrosive
	8
Dangerous for the environment	: No
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

according to the Hazardous Products Regulation (Febr	uary 11, 2015)
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	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.
14.3. Air and sea transport	
IMDG	
UN-No. (IMDG)	: 1760
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.
Class (IMDG) Packing group (IMDG)	: 8 - Corrosive substances : III - substances presenting low danger
IATA	
	. 1700
UN-No. (IATA) Proper Shipping Name (IATA)	: 1760 : Corrosive liquid, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	on
15.1. National regulations	
Poly(oxy-1,2-ethanediyl), .alphasulfoom	ega(dodecyloxy)-, sodium salt (9004-82-4)
Listed on the Canadian DSL (Domestic Subst	ances List)
Ethylenediaminetetraacetic acid (60-00-4)	
Listed on the Canadian DSL (Domestic Subst	ances List)
15.2. International regulations	
Poly(oxy-1,2-ethanediyl), .alphasulfoom Listed on the AICS (Australian Inventory of CI	
Listed on IECSC (Inventory of Existing Chemi	ical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & Ne Listed on the Korean ECL (Existing Chemical	
Listed on NZIoC (New Zealand Inventory of C	Chemicals)
Listed on PICCS (Philippines Inventory of Che Listed on the United States TSCA (Toxic Sub	
Japanese Pollutant Release and Transfer Reg	gister Law (PRTR Law)
Listed on CICR (Turkish Inventory and Contro	of Chemicals)
Trisodium citrate dihydrate (6132-04-3) Listed on the AICS (Australian Inventory of CI	nemical Substances)
Listed on IECSC (Inventory of Existing Chemi	ical Substances Produced or Imported in China)
Listed on NZIOC (New Zealand Inventory of C Listed on PICCS (Philippines Inventory of Ch	
Ethylenediaminetetraacetic acid (60-00-4)	
Listed on the AICS (Australian Inventory of CI	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Japanese Pollutant Release and Transfer Re	
Listed on INSQ (Mexican National Inventory of Listed on CICR (Turkish Inventory and Contro	of Chemical Substances)
SECTION 16: Other information	
Date of issue	: 28/10/2016
Full text of H-statements:	
H302	Harmful if swallowed

	H302	Harmful if swallowed		
01/11/20	016	EN (English)	SDS ID: 2407	7

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

ł	H314	Causes severe skin burns and eye damage
H	H318	Causes serious eye damage
ł	H319	Causes serious eye irritation

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product