Safety Data Sheet 2407 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/11/2016 Revision date: 12/18/2017 Version: 2.0

		10/2017 Ver	5011. 2.0
SECTION 1: Identification			
1.1. Identification			
Product form : Mix	kture		
Product name : AE	M-1-1000 DRY FLOW FILTER	CLEANER	
1.2. Recommended use and restrictions on use	9		
Use of the substance/mixture : Aut	tomotive Cleaner		
1.3. Supplier			
K&N Engineering, Inc.			
P.O. Box 1329			
Riverside, CA 92502-1329 - USA			
T (800) 858-3333 - F (951) 826-4001			
1.4. Emergency telephone number			
Emergency number : Ch	emtrec (800) 424-9300 / +1 (70	03) 527-3887 (CC	:N 632715)
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixture			
GHS-US classification			
Not classified			
2.2. GHS Label elements, including precaution	ary statements		
GHS-US labeling	ary statements		
No labeling applicable			
0 11	If a still set		
2.3. Other hazards which do not result in class Other hazards not contributing to the : No			
classification			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/Information on	ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	GHS-US classification
Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-	(CAS-No.) 9004-82-4	1 - 5	Acute Tox. 4 (Oral), H302
, sodium salt Ethylenediaminetetraacetic acid	(CAS-No.) 60-00-4	0.1 - 1	Eye Irrit. 2A, H319 Acute Tox. 4 (Oral), H302
		0.1 1	Eye Irrit. 2A, H319
Full text of hazard classes and H-statements : see secti	on 16		
SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general : Co	ncerning personal protective e vice (show the label where pos		see item 8. If you feel unwell, seek medical
	move person to fresh air and k		for breathing.
	ash skin with plenty of water.		
	ise eyes with water as a preca	ution.	
-	Il a poison center/doctor/physic		well.
4.2. Most important symptoms and effects (act			
		ant hazard under	anticipated conditions of normal use.
	ne known.		
4.3. Immediate medical attention and special tr	reatment, if necessary		
Not applicable.			
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SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media :	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media :	Do not use a heavy water stream.
5.2. Specific hazards arising from the chem	nical
Reactivity :	The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and prec	-
	Exercise caution when fighting any chemical fire.
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	ment and emergency procedures
General measures :	Avoid contact with skin and eyes.
6.1.1. For non-emergency personnel	
Emergency procedures :	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
For containment :	Do not allow to enter into surface water or drains.
Methods 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 :	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
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 :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
-	Store in a well-ventilated place. Keep cool.
Incompatible products :	Strong acids. Strong bases.
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	
Poly(oxy-1,2-ethanediyl), .alphasulfoomega.	-(dodecyloxy)-, sodium salt (9004-82-4)
Not applicable	
Ethylenediaminetetraacetic acid (60-00-4)	
Not applicable	
8.2. Appropriate engineering controls	
	Ensure good ventilation of the work station.
Environmental exposure controls :	Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

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.

SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: characteristic
Odor threshold	: No data available
рН	: 8
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability	v and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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Oxidizing agents and reducing agents. 10.5. Incompatible materials Acids. Bases. Oxidizing agent. 10.6. 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 11.1. Information on toxicological offects Acute toxicity : Not classified Poly(oxy-1.2-ethanediy), alphasuifo-omega(dodecyloxy), sodium salt (9004-82-4) LD50 oral rat 1600 mg/kg ATE US (oral) 1600 mg/kg ATE US (oral) 1700 mg/kg body weight Ethylenediaminetetraacetic acid (60-00-4) LD50 oral rat 1700 mg/kg body weight Skin corrosion/irritation : Not classified pH: 8 Serious eye damage/irritation genical eye damage/irritation : Not classified pH: 8 Serious eye damage/irritation Garcinogenicity : Not classified Gern cell mutagenicity : Not classified Carcinogenicity : Not classified Specific target organ toxicity – repeated : Not classified Specific target organ toxicity – repeated : Not classified		
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Specific target organ toxicity – single exposure : Not classified Specific target organ toxicity – repeated : Not classified Aspiration hazard : Not classified Likely routes of exposure : Oral. Dermal. Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) 12.50 fish 1 LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Carcinogenicity	: Not classified
Specific target organ toxicity – single exposure : Not classified Specific target organ toxicity – repeated : Not classified Aspiration hazard : Not classified Likely routes of exposure : Oral. Dermal. Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) 12.50 fish 1 LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Reproductive toxicity	: Not classified
Specific target organ toxicity – repeated exposure : Not classified Aspiration hazard : Not classified Likely routes of exposure : Oral. Dermal. Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) 12.50 fish 1 LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
exposure Image: Section 1 Aspiration hazard : Not classified Likely routes of exposure : Oral. Dermal. Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information Image: Section 1 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) Image: Section 1 LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
Aspiration hazard : Not classified Likely routes of exposure : Oral. Dermal. Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information Information 12.1. Toxicity Ecology - general Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) ILC50 fish 1 IC50 Daphnia 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		: Not classified
Likely routes of exposure : Oral. Dermal. Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) 134 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	exposule	
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information Image: Cology - general 12.1. Toxicity : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) Image: Static organism is product is not considered in the environment. Ecology is 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Aspiration hazard	: Not classified
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Chronic symptoms : None known. SECTION 12: Ecological information Image: Chronic symptoms 12.1. Toxicity Ecology - general Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) Image: Static S	Likely routes of exposure	: Oral. Dermal.
SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
I2.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4)	Chronic symptoms	
I2.1. Toxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4)		
Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) ::::::::::::::::::::::::::::::::::::		
effects in the environment. Ethylenediaminetetraacetic acid (60-00-4) LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Ecology - general	
LC50 fish 1 34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	Ethylenediaminetetraacetic acid (60-00-4)	
EC50 Daphnia 1 113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
		44.2 - 76.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2.	Persistence and degradability	
AEM-1	-1000 DRY FLOW FILTER CLEANER	
Persist	ence and degradability	Not established.
12.2	Bioaccumulative potential	

12.3.	Bioaccumulative potential	
AEM-1-	1000 DRY FLOW FILTER CLEANER	
Bioaccu	umulative potential	Not established.

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12.4.	Mobility in soil		
AEM-	1-1000 DRY FLOW FILTER CLEANER		
Ecolo	gy - soil	Not established.	
12.5.	Other adverse effects		
Effect o	n global warming	Not established	

SECTION 13: Disposal consideration	าร
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.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information	
15.1. US Federal regulations	
AEM-1-1000 DRY FLOW FILTER CLEANER	
SARA Section 311/312 Hazard Classes	None

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-, sodium salt (9004-82-4)		
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).	
Ethylenediaminetetraacetic acid (60-00-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	5000 lb	

15.2. International regulations

CANADA

Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-, sodium salt (9004-82-4)
Listed on the Canadian DSL (Domestic Substances List)
Ethylenediaminetetraacetic acid (60-00-4)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

Ethylenediaminetetraacetic acid (60-00-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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National regulations

AEM-1-1000 DRY FLOW FILTER CLEANER	
All chemical substances in this product are listed in the EPA (Environment Protection A	Agency) TSCA (Toxic Substances Control Act) Inventory
Poly(oxy-1,2-ethanediyl), .alphasulfoomega(dodecyloxy)-, sodium salt (9004-8	2-4)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in 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) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)	China)
Ethylenediaminetetraacetic acid (60-00-4)	
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) 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) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals)	China)

Ethylenediaminetetraacetic acid (60-00-4)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

: 12/18/2017

Full text of H-phrases:

Revision date

Acute toxicity (oral) Category 4	
Serious eye damage/eye irritation Category 2A	
Harmful if swallowed	
Causes serious eye irritation	

SDS US (GHS HazCom 2012)

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