

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/08/2016

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: 4300AM-A
Product code	: 4300AM-A
Other means of identification	: 4300AM-A/5, 4300AM-A/5SF
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
No additional information available	, and the second s
1.3. Details of the supplier of the safety of	data sheet
Protective Industrial Polymers 7875 Bliss Parkway North Ridgeville, Ohio 44039 - USA-Ohio T 440-327-0015	
www.protectpoly.com	
1.4. Emergency telephone number	
Emergency number	: Chemtrec: 800-427-9300 (Outside USA) 703-527-3887
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Sensitisation — Skin, Category 1 H317	
Full text of H statements : see section 16	
2.2. Label elements GHS-US labelling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H317 - May cause an allergic skin reaction
Precautionary statements (GHS-US)	 P261 - Avoid breathing vapours P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective clothing P302+P352 - If on skin: Wash with plenty of soap P321 - Specific treatment (see a doctor if symptoms do not go away. on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P363 - Wash contaminated clothing before reuse P501 - Dispose of contents/container to in accordance with local regulations
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
	n on ingredients
SECTION 3: Composition/information	n on ingreatents
SECTION 3: Composition/information	

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Name	Product identifier	%	GHS-US classification
2-Butenedioic acid (E)-, diethyl ester	(CAS No) 623-91-6	0 - 1	Acute Tox. 4 (Oral), H302
Bentonite	(CAS No) 1302-78-9	0 - 1	Not classified
Pimelic Ketone	(CAS No) 108-94-1	0 - 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332
(1-Hexadecyl)trimethylammonium bromide	(CAS No) 57-09-0	0 - 0.1	Acute Tox. 4 (Oral), H302
1-octene	(CAS No) 111-66-0	0 - 0.01	Flam. Liq. 2, H225
Silver	(CAS No) 7440-22-4	0 - 0.01	Not classified

Full text of H-statements: see section 16

SECT	ON 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	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid	measures after eye contact	: Rinse eyes with water as a precaution.
First-aid	measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and effects	s, both acute and delayed
Sympton	ns/injuries after skin contact	: May cause an allergic skin reaction.
4.3.	Indication of any immediate medical	attention and special treatment needed
Treat sy	mptomatically.	
SECT	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Special hazards arising from the sub	stance or mixture
Reactivi	ty	: The product is non-reactive under normal conditions of use, storage and transport.
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ON 6: Accidental release meas	ures
SECT 6.1.	ON 6: Accidental release meas Personal precautions, protective equ	
6.1. 6.1.1.	Personal precautions, protective equ For non-emergency personnel	
6.1. 6.1.1. Emerge	Personal precautions, protective equ For non-emergency personnel ncy procedures	ipment and emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing
6.1. 6.1.1. Emerge 6.1.2.	Personal precautions, protective equ For non-emergency personnel	ipment and emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing
6.1. 6.1.1. Emerge 6.1.2.	Personal precautions, protective equ For non-emergency personnel ncy procedures For emergency responders	 ipment and emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. : Do not attempt to take action without suitable protective equipment. For further information
6.1. 6.1.1. Emerge 6.1.2. Protectiv	Personal precautions, protective equ For non-emergency personnel ncy procedures For emergency responders ve equipment	 ipment and emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. : Do not attempt to take action without suitable protective equipment. For further information
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6.1. 6.1.1. Emerge 6.1.2. Protectivities 6.2. Avoid reference 6.3. Methods Other in 6.4. For furth	Personal precautions, protective equ For non-emergency personnel mcy procedures For emergency responders we equipment Environmental precautions lease to the environment. Methods and material for containments for cleaning up formation Reference to other sections mer information refer to section 13.	 ipment and emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated Hygiene measures clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 72 Conditions for safe storage, including any incompatibilities Storage conditions : Store in a well-ventilated place. Keep cool. SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** 2-Butenedioic acid (E)-, diethyl ester (623-91-6) Not applicable 1-octene (111-66-0) Not applicable Pimelic Ketone (108-94-1) ACGIH ACGIH TWA (ppm) 20 ppm (Cyclohexanone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) ACGIH 50 ppm (Cyclohexanone; USA; Short time value; TLV -ACGIH STEL (ppm) Adopted Value) ACGIH Eye & URT irr Remark (ACGIH) OSHA OSHA PEL (TWA) (mg/m3) 200 mg/m³ OSHA OSHA PEL (TWA) (ppm) 50 ppm Bentonite (1302-78-9) Not applicable (1-Hexadecyl)trimethylammonium bromide (57-09-0) Not applicable Silver (7440-22-4) 0.1 mg/m3 (Silver, metal, dust and fume; USA; Time-ACGIH ACGIH TWA (mg/m³) weighted average exposure limit 8 h; TLV - Adopted Value) OSHA OSHA PEL (TWA) (mg/m3) 0.01 mg/m³ 8 2 Exposure control

0.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Liquid : Yellow liquid. Colorless to pale yellow liquid. Appearance : Mixture contains one or more component(s) which have the following colour(s): Colour Colourless On exposure to air: light yellow Off-white to light grey White Metallic grey On exposure to air: turns grey-black Odour : Ammonical Odour threshold : No data available pН : No data available Melting point : Not applicable Freezing point : No data available

Flash point

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Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : • 1-octene: 0.0004 g/100ml • Pimelic Ketone: 8.6 g/100ml (20 °C, moderately soluble) • Bentonite: insoluble • (1-Hexadecyl)trimethylammonium bromide: soluble • Silver: < 0.1 mg/l
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability 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.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

2-Butenedioic acid (E)-, diethyl ester (623-91-6)		
LD50 oral rat	1780 mg/kg (Rat)	
ATE US (oral)	1780.000 mg/kg bodyweight	
1-octene (111-66-0)		
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	37 mg/l/4h (Rat)	
LC50 inhalation rat (ppm)	8050 ppm/4h (Rat)	
ATE US (gases)	8050.000 ppmv/4h	
ATE US (vapours)	37.000 mg/l/4h	
ATE US (dust,mist)	37.000 mg/l/4h	
Pimelic Ketone (108-94-1)		
LD50 oral rat	1535 mg/kg (Rat; BASF test; Experimental value; 2650 mg/kg bodyweight; Rat)	
ATE US (oral)	1535.000 mg/kg bodyweight	
ATE US (dermal)	948.000 mg/kg bodyweight	
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cording to Federal Register / Vol. 77, No. 58 / Monday,	
Pimelic Ketone (108-94-1)	
ATE US (gases)	2639.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h
(1-Hexadecyl)trimethylammonium bromide (57-09-0)
LD50 oral rat	410 mg/kg (Rat)
ATE US (oral)	410.000 mg/kg bodyweight
Silver (7440-22-4)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; > 5000 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Pimelic Ketone (108-94-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
specific target organ toxicity (single exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
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.
1-octene (111-66-0)	
LC50 fish 1	3.2 - 10 mg/l (LC50; 96 h)
EC50 Daphnia 1	
	3.2 - 10 [[lq/] (EC30, 40 [])
	3.2 - 10 mg/l (EC50; 48 h)
Pimelic Ketone (108-94-1)	
LC50 fish 1	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
LC50 fish 1	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (LC50 fish 1	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (H LC50 fish 1 Threshold limit algae 2	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (1 LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4)	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (1 LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4) LC50 fish 2	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h) 1.2 μg/l (LC50; 96 h; Pimephales promelas; Semi-static system; Fresh water)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (4) LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4) LC50 fish 2 EC50 Daphnia 2	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h) 1.2 µg/l (LC50; 96 h; Pimephales promelas; Semi-static system; Fresh water) 0.22 µg/l (LC50; 48 h; Daphnia magna; Semi-static system; Fresh water)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (1 LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4) LC50 fish 2	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h) 1.2 μg/l (LC50; 96 h; Pimephales promelas; Semi-static system; Fresh water)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (1) LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4) LC50 fish 2 EC50 Daphnia 2 Threshold limit algae 1	 527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h) 1.2 µg/l (LC50; 96 h; Pimephales promelas; Semi-static system; Fresh water) 0.22 µg/l (LC50; 48 h; Daphnia magna; Semi-static system; Fresh water) 4.61 µg/l (IC50; US EPA; 96 h; Pseudokirchneriella subcapitata; Static system; Fresh water;
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (4) LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4) LC50 fish 2 EC50 Daphnia 2 Threshold limit algae 1 12.2. Persistence and degradability	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h) 1.2 μg/l (LC50; 96 h; Pimephales promelas; Semi-static system; Fresh water) 0.22 μg/l (LC50; 48 h; Daphnia magna; Semi-static system; Fresh water) 4.61 μg/l (IC50; US EPA; 96 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
LC50 fish 1 (1-Hexadecyl)trimethylammonium bromide (1) LC50 fish 1 Threshold limit algae 2 Silver (7440-22-4) LC50 fish 2 EC50 Daphnia 2 Threshold limit algae 1	527 - 732 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) 57-09-0) 1 mg/l (LC50; 24 h) 0.09 mg/l (EC50; 96 h) 1.2 μg/l (LC50; 96 h; Pimephales promelas; Semi-static system; Fresh water) 0.22 μg/l (LC50; 48 h; Daphnia magna; Semi-static system; Fresh water) 4.61 μg/l (IC50; US EPA; 96 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

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Pimelic Ketone (108-94-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	1.232 g O₂/g substance	
Chemical oxygen demand (COD)	2.605 g O₂/g substance	
ThOD	2.605 g O₂/g substance	
BOD (% of ThOD)	0.32 - 0.47 (Literature study)	
Bentonite (1302-78-9)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
(1-Hexadecyl)trimethylammonium bromide (57-09-0)		
Persistence and degradability	Readily biodegradable in water.	
Silver (7440-22-4)	Silver (7440-22-4)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.	
ThOD	Not applicable (inorganic)	

12.3. Bioaccumulative potential

2-Butenedioic acid (E)-, diethyl ester (623-91-6)		
Bioaccumulative potential	No bioaccumulation data available.	
1-octene (111-66-0)		
Log Pow	4.57	
Bioaccumulative potential	Bioaccumable.	
Pimelic Ketone (108-94-1)		
BCF other aquatic organisms 1	2.4 (BCF)	
Log Pow	0.86 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Bentonite (1302-78-9)		
Bioaccumulative potential	No bioaccumulation data available.	
(1-Hexadecyl)trimethylammonium bromide (57-09-0)		
Log Pow	3.18	
Silver (7440-22-4)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

1-octene (111-66-0)	
Surface tension	0.022 N/m (20 °C)
Pimelic Ketone (108-94-1)	
Surface tension	0.034 N/m (20 °C)
Log Koc	log Koc,SRC PCKOCWIN v1.66; 1.18; Calculated value

12.5. Other adverse effects

Effect on the global warming

: No known ecological damage caused by this product.

SECTIO	DN 13: Disposal consideration	s
13.1.	Waste treatment methods	
Waste tre	atment methods	: Contain and dispose of waste according to local regulations.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information		
15.1. US Federal regulations		
4300AM-A		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
2-Butenedioic acid (E)-, diethyl ester (623-91-6	ة)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
1-octene (111-66-0)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
Pimelic Ketone (108-94-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313		
CERCLA RQ	5000 lb	
Bentonite (1302-78-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
(1-Hexadecyl)trimethylammonium bromide (57	7-09-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Silver (7440-22-4)		
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States Not subject to reporing requirements of the United	s SARA Section 313	
CERCLA RQ	1 lb	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Pimelic Ketone (108-94-1)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

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Silver (7440-22-4)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: Disclaimer: This SDS to the best of our knowledge conforms to the requirements of OSHA 20 CFR 1910.1200 and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace.

Full text of H-statements:

	H225	Highly flammable liquid and vapour
	H226	Flammable liquid and vapour
	H302	Harmful if swallowed
	H311	Toxic in contact with skin
	H317	May cause an allergic skin reaction
	H332	Harmful if inhaled
NFPA	health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA	fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical		: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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