

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: ArmaKleen® MSC-10

SDS No : 820501

Intended Use of the Product

Industrial bio based cleaner

Name, Address, and Telephone of the Responsible Party

Manufacturer

Safety-Kleen Systems, Inc.

42 Longwater Drive

Norwell, MA 02061-9149

1-800-669-5740

www.safety-kleen.com

Emergency Telephone Number

Emergency Number : For Medical Emergency: 1-888-234-1828 (USA and Canada), 952-853-1925 (Outside USA and Canada)
For Chemical Emergency: VelocityEHS (800)255-3924 (North America) +1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS-US/CA Classification

Skin corrosion/irritation Category 1B	H314
Serious eye damage/eye irritation Category 1	H318
Reproductive toxicity Category 2	H361
Hazardous to the aquatic environment – Acute Hazard Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard Category 3	H412

Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)



Signal Word (GHS-US/CA)

: Danger

Hazard Statements (GHS-US/CA)

: H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H361 - Suspected of damaging fertility or the unborn child (oral).
H401 - Toxic to aquatic life.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye 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 clothing.
Rinse skin with water .

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P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Sodium n-octanoate	Sodium caprylate Caprylic acid sodium salt Octanoic acid, sodium salt Sodium octanoate Octanoic acid, sodium salt (1:1) SODIUM CAPRYLATE	(CAS-No.) 1984-06-1	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Sodium silicate	Silicic acid, sodium salt SODIUM SILICATE Sodium silicates Sodium orthosilicate	(CAS-No.) 1344-09-8	3 – 7	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
D-Glucopyranose, oligomeric, 2-ethylhexyl glycosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts	-	(CAS-No.) 740817-96-3	3 – 7	Not classified.
Disodium carbonate	Sodium carbonate anhydrous SODIUM CARBONATE Carbonic acid sodium salt (1:2) Sodium carbonate, anhydrous Sodium carbonate (2:1) Soda ash Carbonic acid, disodium salt Sodium carbonate	(CAS-No.) 497-19-8	1 – 5	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319
Alcohols, C6-10, ethoxylated propoxylated	Ethoxylated propoxylated C6-10 alcohols Poly(ethylene propylene)glycol ethers of C6-10 alcohols Ethoxylated propoxylated alcohols(C6-10) Alcohols, C8-10, ethoxylated propoxylated C6-10 Alcohols ethoxylated propoxylated	(CAS-No.) 68987-81-5	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Alcohols, C6-12, ethoxylated	Ethoxylated alcohols, C6-12 C6-12 Ethoxylated alcohols Ethoxylated alcohols(C6-12) C6-12 Alcohol ethoxylates	(CAS-No.) 68439-45-2	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402

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9-Decenamamide, N,N-dimethyl-	N,N-Dimethyl dec-9-enamide DIMETHYL 9-DECENAMIDE N,N-Dimethyl-9-decenamide	(CAS-No.) 1356964-77-6	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Alcohols, C10-16, ethoxylated	PEG alkyl(C10-16) ether Polyethylene glycol ethers of C10-16 alcohols .alpha.-Alkyl(C10-16)- .omega.- hydroxypoly(oxyethylene) C10-16 Alcohol ethoxylate Ethoxylated alcohols(C10-16) C10-16 PARETH-1 C10-16 Pareth-1 Ethoxylated alcohols (C10-16) C10-16 ALKETH-1	(CAS-No.) 68002-97-1	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
Alcohols, C12-14, ethoxylated propoxylated	PPG-2-LAURETH-12 PPG-2-LAURETH-5 PPG-2-LAURETH-8 PPG-4-LAURETH-15 Ethoxylated or propoxylated aliphatic alcohol (C=12-14) Ethoxylated propoxylated alcohols(C12-14) C12-14 Ethoxylated propoxylated alcohols PPG-5-laureth-5 C12-14 Alcohols ethoxylated propoxylated PPG-4 laureth-8 Dodecanol PPG-4-laureth-15 PPG-2-laureth-8 PPG-2-laureth-5 PPG-2-laureth-12 PPG-5-LAURETH-5 PPG-5-Laureth-5 Alcohols, C12-14, ethoxylated, propoxylated	(CAS-No.) 68439-51-0	0.5 – 1.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Tolyl triazole	1H-Benzotriazole, 4(or 5)-methyl- 1H-Benzotriazole, methyl- Methyl-1H-benzotriazole Tolyltriazole 1H-Benzotriazole, 4 (or 5)-methyl- 1H-Benzotriazole, 6(or 7)-methyl- Tolyltriazole 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt 6(or 7)-Methyl-1H-benzotriazole tolyltriazole	(CAS-No.) 29385-43-1	0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2B, H320 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	C8-10-Alkyl alcohol ethoxylate, phosphate ester Polyethyleneglycol monoalkyl (C8-10) ether phosphate Polyethylene glycol mono alkyl (C8-10) ether phosphate .alpha.-Hydroxy-.omega.-hydroxypoly(oxy-1,2-ethanediyl)alkyl (C8-10) ethers phosphate	(CAS-No.) 68130-47-2	0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Cyclohexylamine	Hexahydrobenzenamine Hexahydroaniline Cyclohexanamine Aminocyclohexane CYCLOHEXYLAMINE Cyclohexan-1-ylamine	(CAS-No.) 108-91-8	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 3, H402
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Full text of H-statements: see section 16

* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients.

Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

Description of 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).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Suspected of damaging fertility or the unborn child. Causes severe skin burns and eye damage.

Inhalation: May be corrosive to the respiratory tract.

Skin Contact: Causes severe irritation which will progress to chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Suspected of damaging fertility or the unborn child (oral).

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Sodium oxides. Nitrogen oxides. Silica compounds. Phosphorus oxides. Carbon oxides (CO, CO₂).

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

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For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s)

Industrial bio based cleaner

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Cyclohexylamine (108-91-8)		
USA ACGIH	ACGIH OEL TWA	10 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA)	40 mg/m ³
USA NIOSH	NIOSH REL (TWA)	10 ppm
Alberta	OEL TWA	41 mg/m ³
Alberta	OEL TWA	10 ppm
British Columbia	OEL TWA	10 ppm
Manitoba	OEL TWA	10 ppm
New Brunswick	OEL TWA	10 ppm
Newfoundland & Labrador	OEL TWA	10 ppm
Nova Scotia	OEL TWA	10 ppm
Nunavut	OEL STEL	15 ppm

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Nunavut	OEL TWA	10 ppm
Northwest Territories	OEL STEL	15 ppm
Northwest Territories	OEL TWA	10 ppm
Ontario	OEL TWAEV	10 ppm
Prince Edward Island	OEL TWA	10 ppm
Québec	VEMP (OEL TWAEV)	41 mg/m ³
Québec	VEMP (OEL TWAEV)	10 ppm
Saskatchewan	OEL STEL	15 ppm
Saskatchewan	OEL TWA	10 ppm
Yukon	OEL STEL	40 mg/m ³
Yukon	OEL STEL	10 ppm
Yukon	OEL TWA	40 mg/m ³
Yukon	OEL TWA	10 ppm

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear. Pale yellow
Odor	: Mild
Odor Threshold	: No data available
pH	: 11.8 [pH meter]
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 100 °C (212 °F)
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: < 1 mm Hg at 20 °C (68 °F)
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Density	: 1.043 g/ml [Lab test]
Specific Gravity	: 1.043 (water =1) [Hydrometer]

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Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
VOC content	: 36 g/l [EPA Method 24]

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products:

Thermal decomposition may produce: Sodium oxides. Nitrogen oxides. Silica compounds. Phosphorus oxides. Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Causes severe skin burns.

pH: 11.8 [pH meter]

Eye Damage/Irritation: Causes serious eye damage.

pH: 11.8 [pH meter]

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child (oral).

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Suspected of damaging fertility or the unborn child (oral).

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Tolyl triazole (29385-43-1)	
LD50 Oral Rat	675 mg/kg (Source: NZ_CCID)
LD50 Dermal Rabbit	> 4000 mg/kg (Source: EPA_HP V)
LC50 Inhalation Rat	> 1.73 mg/l (Exposure time: 1 h Source: EPA_HP V)
Cyclohexylamine (108-91-8)	
LD50 Oral Rat	11 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	277 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	1000 ppm (Exposure time: 16 h Source: JAPAN_GHS)
Disodium carbonate (497-19-8)	

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LD50 Oral Rat	4090 mg/kg (Source: NLM_HSDB)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	2300 mg/m ³ (Exposure time: 2 h Source: ECHA_API)
Sodium silicate (1344-09-8)	
LD50 Oral Rat	1960 mg/kg (Source: NLM_CIP)
Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
LD50 Oral Rat	810 – 1660 mg/kg (Read-across from 68603-25-8)
Alcohols, C6-12, ethoxylated (68439-45-2)	
ATE US/CA (oral)	500.00 mg/kg body weight
9-Decenamamide, N,N-dimethyl- (1356964-77-6)	
LD50 Oral Rat	550 mg/kg (Source: NICNAS)
LD50 Dermal Rat	> 5000 mg/kg (Source: ECHA_API)
Alcohols, C10-16, ethoxylated (68002-97-1)	
ATE US/CA (oral)	500.00 mg/kg body weight
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
LD50 Oral Rat	3530 mg/kg (Source: NZ_CCID)
Cyclohexylamine (108-91-8)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Tolyl triazole (29385-43-1)	
LC50 Fish 1	180 mg/l
LC50 Other Aquatic Organisms 1	55 mg/l
NOEC Chronic Crustacea	10 mg/l
NOEC Chronic Algae	1.18 mg/l
Cyclohexylamine (108-91-8)	
LC50 Fish 1	44 – 90 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
LC50 Fish 2	470 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)
Disodium carbonate (497-19-8)	
LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
Sodium silicate (1344-09-8)	
LC50 Fish 1	301 – 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: IUCLID)
LC50 Fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static] Source: IUCLID)
9-Decenamamide, N,N-dimethyl- (1356964-77-6)	
LC50 Fish 1	> 7.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: ECHA)

Persistence and Degradability

ArmaKleen[®] MSC-10	
Persistence and Degradability	May cause long-term adverse effects in the environment.

Bioaccumulative Potential

ArmaKleen[®] MSC-10	
Bioaccumulative Potential	Not established.
Tolyl triazole (29385-43-1)	
Partition coefficient n-octanol/water (Log Pow)	(1.079 - <=1.083 - at 25 °C / 77 °F (at pH 7-<=8))
Cyclohexylamine (108-91-8)	

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Partition coefficient n-octanol/water (Log Pow)	3.7 (at 25 °C / 77 °F (at pH 6.8))
Disodium carbonate (497-19-8)	
BCF Fish 1	(no bioaccumulation)
Sodium silicate (1344-09-8)	
BCF Fish 1	(no bioaccumulation expected)
9-Decenamamide, N,N-dimethyl- (1356964-77-6)	
Partition coefficient n-octanol/water (Log Pow)	3.17 (at 30 °C / 86 °F) (at pH 6.69)

Mobility in Soil

No additional information available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : SODIUM SILICATE)
Hazard Class : 8
Identification Number : UN3267
Label Codes : 8
Packing Group : III
ERG Number : 153



In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : SODIUM SILICATE)
Hazard Class : 8
Identification Number : UN3267
Label Codes : 8
Packing Group : III
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B



In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : SODIUM SILICATE)
Hazard Class : 8
Identification Number : UN3267
Label Codes : 8
Packing Group : III
ERG Code (IATA) : 8L



In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : SODIUM SILICATE)
Hazard Class : 8
Identification Number : UN3267
Label Codes : 8
Packing Group : III



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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

ARMAKLEEN[™] MSC-10	
SARA Section 311/312 Hazard Classes	Health hazard - Reproductive toxicity Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation
Tolyl triazole (29385-43-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA.
Cyclohexylamine (108-91-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the United States SARA Section 302	
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Disodium carbonate (497-19-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Sodium n-octanoate (1984-06-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Sodium silicate (1344-09-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
D-Glucopyranose, oligomeric, 2-ethylhexyl glycosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts (740817-96-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.
Alcohols, C6-12, ethoxylated (68439-45-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
9-Decenamamide, N,N-dimethyl- (1356964-77-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.
Alcohols, C10-16, ethoxylated (68002-97-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

US State Regulations

Cyclohexylamine (108-91-8)

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

Canadian Regulations

Tolyl triazole (29385-43-1)

Listed on the Canadian DSL (Domestic Substances List)

Cyclohexylamine (108-91-8)

Listed on the Canadian DSL (Domestic Substances List)

Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2)

Listed on the Canadian DSL (Domestic Substances List)

Disodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

Sodium n-octanoate (1984-06-1)

Listed on the Canadian DSL (Domestic Substances List)

Sodium silicate (1344-09-8)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

D-Glucopyranose, oligomeric, 2-ethylhexyl glycosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts (740817-96-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Alcohols, C6-12, ethoxylated (68439-45-2)

Listed on the Canadian DSL (Domestic Substances List)

9-Decenamamide, N,N-dimethyl- (1356964-77-6)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C10-16, ethoxylated (68002-97-1)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 01/27/2025
Revision : Supercedes 12/07/2024
Indication of changes : Update to logo and Manufacturer information.
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

H226	Flammable liquid and vapor
H290	May be corrosive to metals
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

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H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU_WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency)

EC_RAR: European Commission Renewal Assessment Report

EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

ECHA_API: European Chemicals Agency API

ECHA_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency

EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)

EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)

EPA_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU_CLH: European Union Harmonised Classification and Labelling Proposal

EU_RAR: European Union Risk Assessment Report

FOOD_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN_GHS: Japan GHS Basis for Classification Data

JP_J-CHECK: Japan J-Check

KR_NIER: South Korea National Institute of Environmental Research Evaluations

NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)

NLM_CIP: National Library of Medicine ChemID plus database

NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ_CCID: New Zealand Chemical Classification and Information Database

OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.

NA GHS SDS 2015 (Can, US)