

1. Chemical and company identification

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Name of chemical (Product name)	ARISTONATE® M		
Company name	Pilot Chemical Company		
Address	2744 East Kemper Road Sharonville, OH 45241 United Sta	ites	
Telephone	(513) 326-0600 1-800-707-4568	(8 AM to 5	PM Eastern)
e-mail address	sdsinfo@pilotchemical.com		
Emergency telephone number	CHEMTREC International:	1-703-527-	3887
CHEMTREC Japan:	+(81)-345209637		
Product Code	516S30		
Recommended use of the chem Intended use	ical and restrictions on use Emulsifier, Corrosion Inhibitor		
2. Hazards identification			
GHS classification			
Physical hazards	The product is not classified accor	rding to GHS	S.
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritation	l	Category 1
Environmental hazards	Hazardous to the aquatic environr hazard	ment, acute	Category 2
	Hazardous to the aquatic environr long-term hazard	ment,	Category 3
GHS label elements			
Symbols			
Signal words	Danger		
Hazard statement	Causes skin irritation. Causes ser with long lasting effects.	rious eye da	mage. Toxic to aquatic life. Harmful to aquatic life
Precautionary statement			
Prevention	Wash thoroughly after handling. A protection. Wear protective gloves		e to the environment. Wear eye protection/face
Response	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage	Store away from incompatible mat	terials.	
Disposal	Dispose of contents/container in a	accordance	with local/regional/national/international regulations.
Other hazards which do not result in classification	None known.		
Supplemental information	None.		
Main symptoms and emergency	v overview		
Main symptoms			stinging, tearing, redness, swelling, and blurred dness could result. Skin irritation. May cause redness
Emergency overview	Causes serious eye damage. Cau into watercourses.	uses skin irri	tation. Dangerous for the environment if discharged
3. Composition/information	on on ingredients		

3. Composition/information on ingredients

Substance or mixture Mixture

			Gazette no	otification	
Components		CAS Number	ENCS no.	ISHL no.	Concentration (%)
Benzene, Mono-C10-13-alkyl Der Heavy Ends, Sulfonated, Sodium		148520-82-5	(3)-1949		60 - 65
Distillates, Petroleum, Hydrotreate	ed Heavy Naphthenic	64742-52-5	(9)-1689	(9)-1703	Trade Secret
Sodium Alkylbenzene Sulfonate 1		Trade Secret	(3)-1949	(3)-1949	Trade Secret
Other components below reportat	ole levels				0 - 5
			Gazette no	otification	
Impurities		CAS Number	ENCS no.	ISHL no.	Concentration (%)
Alkylbenzene 1		Trade Secret	(3)-21		Trade Secret
Chemical formula	UVCB (64742-52-5)				
Composition comments		Occupational Exposure Limits for impurities are listed in Section 8. Additional compounds which may be formed during processing are listed in Section 8.			
4. First aid measures					
If inhaled	Move to fresh air. Call a ph	nysician if symptom	s develop or per	sist.	
lf on skin		Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.			
If in eyes		Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.			
If swallowed	Rinse mouth. Get medical				
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.				
Protection of first-aid responders	Ensure that medical person protect themselves.	Ensure that medical personnel are aware of the material(s) involved, and take precautions to			
Notes to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.				
5. Fire-fighting measures					
Extinguishing media	Water fog. Foam. Dry cher	nical powder. Carb	on dioxide (CO2).	
Extinguishing media to avoid	Do not use water jet as an	extinguisher, as thi	s will spread the	e fire.	
Specific hazards	During fire, gases hazardo	us to health may be	e formed.		
Special fire fighting procedures	Move containers from fire a	area if you can do s	o without risk.		
Protection of fire-fighters	Self-contained breathing a	pparatus and full pr	otective clothing	g must be worn	in case of fire.
General fire hazards	No unusual fire or explosio				
Specific methods	Use standard firefighting p	rocedures and con	sider the hazard	s of other invol	ved materials.
6. Accidental release mea	sures				
Personal precautions, protective equipment and emergency measures	Keep unnecessary person appropriate protective equi or spilled material unless w Local authorities should be protection, see section 8 o	ipment and clothing vearing appropriate advised if significa	during clean-up protective cloth	 Do not touch ing. Ensure add 	damaged containers equate ventilation.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.				
Methods or materials for	Prevent product from enter	ring drains.			
containment and cleaning up	Large Spills: Stop the flow possible. Cover with plastic and place into containers.	c sheet to prevent s	preading. Absor	b in vermiculite	
	Small Spills: Wipe up with remove residual contamination		(e.g. cloth, fleed	ce). Clean surfa	ace thoroughly to
	Never return spills to origin	al containers for re	-use. For waste	disposal, see s	section 13 of the SDS.

7. Handling and storage

Handling	
Technical measures (e.g. Local and general ventilation)	Provide adequate ventilation.
Safe handling advice	Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid release to the environment. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.
Contact avoidance measures	For further information, please refer to section 10 of the SDS.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Storage	
Safe storage conditions	Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).
Safe packaging materials	Store in original tightly closed container.

8. Exposure controls/personal protection

Occupational exposure limits

Japan. OELs - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits) Components Туре Value Form

Components	туре	value			
Distillates, Petroleum, Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	3 mg/m3	Mist.		
US. ACGIH Threshold Limit	Values				
Components	Туре	Value	Form		
Distillates, Petroleum, Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	Inhalable fraction.			
Engineering measures	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.				
Personal protective equipment					
Respiratory protection	In case of insufficient ventilation, wea	r suitable respiratory equipme	ent.		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.				
Eye protection	Wear safety glasses with side shields (or goggles) and a face shield.				
Skin and body protection	Wear appropriate chemical resistant clothing.				
9. Physical and chemical	properties				
Appearance	Oily.				
Physical state	Liquid.				
Form	Liquid.				
Color	Brown.				
Odor	Oily.				
рН	11 - 13				
Melting point/Freezing point	Not available.				
Boiling point, initial boiling point, and boiling range	520 °F (271.11 °C)				
Flash point	> 320.0 °F (> 160.0 °C) Cleveland Op	ben Cup			
Combustion characteristics	Not applicable.				

(solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower Not available. (%)

Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1.06
Solubility(ies)	
Solubility (water)	Dispersable; may gel
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity (Coefficient of viscosity)	Not available.
Other information	
Density	8.85 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Components	Species	Test Results	
Distillates, Petroleum, Hydrotre	eated Heavy Naphthenic (CAS 64742-52-5)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
Aerosol			
LC50	Rat	> 5.53 mg/l, 4 Hours	
Oral			
LD50	Rat	> 5000 mg/kg	
Sodium Alkylbenzene Sulfonat	te 1		
Acute			
Dermal			
LD50	Rat	1000 - 1600 mg/kg	
Oral			
LD50	Rat	520 mg/kg	
Impurities	Species	Test Results	
Alkylbenzene 1			
Acute			
Dermal			
LD50	Rat	> 3600 mg/kg	
Oral			
LD50	Rat	> 2000 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		

Respiratory or skin sensitization	n
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.

12. Ecological information

Ecotoxicological data

Ecoloxicological data		Species	Test Results
Distillates, Petroleum, Hydrotreat	ted Heavy Naph	thenic (CAS 64742-52-5)	
Aquatic			
Acute			
Algae	NOEL	Algae	>= 100 mg/l, 72 h
Crustacea	EC50	Daphnia	> 10000 mg/l, 48 h
Fish	LC50	Fathead minnow (Pimephales promela	us) > 100 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	10 mg/l, 21 d
odium Alkylbenzene Sulfonate	1		
Aquatic			
Acute			
Algae	EC50	Algae	> 160 mg/l, 72 h
Crustacea	EC50	Daphnia	3.6 mg/l, 48 h
Fish	LC50	Bluegill (Lepomis macrochirus)	1.67 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	1.5 mg/l, 21 d
Fish	NOEC	Fish	0.23 mg/l, 72 d
mpurities		Species	Test Results
Ikylbenzene 1			
Aquatic			
Acute			
Algae	EC50	Algae	> 2.08 mg/l, 72 h
Crustacea	EC50	Daphnia	1.4 mg/l, 48 h
Fish	LC50	Fathead minnow (Pimephales promela	us) >100 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	0.0075 mg/l, 21 d
cotoxicity	Toxic to aqu	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.	
Persistence and degradability	This product is not expected to be readily biodegradable.		
Bioaccumulation			
lobility in soil	This product	This product is miscible in water.	
lazardous to the ozone layer	No data ava	ilable.	
Other hazardous effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

13. Disposal considerations

Dispose in accordance with all applicable regulations.

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

14. Transport information

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

National regulations

Follow regulation in section 15 for domestic transportation.

15. Regulatory information

15. Regulatory information	1	
Industrial Safety and Health Act		
Notifiable substances		
Not regulated.		
Labeling substances Not regulated.		
	stances Ocutual Act	
Poisonous and Deleterious Sub Specified poisonous substa		
Not regulated.		
Poisonous substances		
Not regulated.		
Deleterious substances		
Not regulated.		
	cal Substances and Regulation of Their Manufacture, etc.	
Class I specified chemical s	ubstances	
Not regulated.		
Class II specified chemical s Not regulated.	substances	
Monitoring chemical substa	nces	
Not regulated.		
Priority Assessment Chemic Not regulated.	cal Substances (PACs)	
Reporting Exempted Substa	ances	
Not regulated.		
Law concerning Pollutant Relea	se and Transfer Register	
•	es (substance name, ordinance number and content)	
Not regulated.		
Not regulated.	nce name, ordinance number and content)	
	nce name, ordinance number and content)	
Not regulated.		
Ship Safety Law, Dangerous	Not regulated.	
Goods Marine Transport and		
Storage Rule		
Air Law, Enforcement Rule	Not regulated.	
Explosives Control Act		
Not regulated.		
Act on Prevention of Marine Pollution and Maritime Disaster ALKYLBENZENE SULFONIC ACID, SODIUM SALT SOLUTION Category: Y		
ALKYLBENZENE SULFONIC	ACID, SODIUM SALT SOLUTION Category: Y	

16. Other information

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Bibliography HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012 JIS Z 7252:2014 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)' JIS Z 7253:2012 Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS) The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. **Revision information** Product and Company Identification: Product Uses

Product and Company Identification: Product Uses Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory Information: United States Material Attributes & Uses; Experimental Data: Experimental Data REACH: Registration Substance