

1. Identification

Product identifier	AQUATAC™ E 6180
Other means of identification	
SDS number	8920
Product Code	200000000524
Recommended use	Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys).
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Company	Kraton Chemical, LLC
Address	P.O. Box 550850 Jacksonville, FL
Zip	32255-0850
Country	USA
Phone Number	904-928-8700
Alternate Phone Number	800-526-5294
Fax Number	904-928-8780
Emergency-US	CHEMTREC 800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices. Avoid breathing mist or vapor. Wear protective gloves/eye protection/face protection.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Rosin Ester		Proprietary	50 - <60
Water			40 - < 50

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Wear suitable protective equipment.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Manufacturer recommends storing above 40 F. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.
Biological limit values	No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation 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. 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.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Wear suitable gloves tested to EN374. Recommended gloves include rubber, neoprene, nitrile or viton. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness should be typically greater than 0.35 mm. This recommendation is advisory only. It may not be appropriate for all workplaces. It should not be construed as offering an approval for any specific use scenario. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

9. Physical and chemical properties

Appearance Liquid.
Physical state Liquid.
Form Liquid.
Color White.
Odor Mild.
Odor threshold Not available.
pH 8.8 - 9.5
Melting point/freezing point 32 °F (0 °C) (water)
Initial boiling point and boiling range 212 °F (100 °C) (water)
Flash point > 201.2 °F (> 94.0 °C) Setaflash Closed Cup
Evaporation rate 0.3 (n-BuAc=1) (water)
Flammability (solid, gas) Not applicable.
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 18 mm Hg at 20°C (water)
Vapor density 0.6 (air=1) (water)
Relative density > 1 at 25°C/25°C (water=1)
Solubility(ies)
Solubility (water) Dilutable

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	200 - 600 cP Brookfield at 25°C

Other information

Chemical family	Resin Dispersion
Density	> 1000.00 kg/m ³ at 20°C
Explosive properties	Not explosive.
Flammability	Nonflammable
Flammability class	Non-hazardous
Oxidizing properties	Not oxidizing.
Percent volatile	40 % by weight (water)
Weighted solids	60 %

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	Strong oxidizing agents. Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Rosin Ester	Irritation Corrosion - Eye, No eye irritation.; Data is for similar product. Result: Negative Species: New Zealand white rabbit Organ: Eye Observation Period: 7 days Notes: OECD 405

Ingestion Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results
Rosin Ester		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
	Sprague-Dawley rat	> 2000 mg/kg At this dose no death occurred.; Data is for similar product.; OECD 402
Oral		
LD50	Rat	> 2000 mg/kg

Components	Species	Test Results
	Sprague-Dawley rat	> 2000 mg/kg At this dose no death occurred.; Data is for similar product.; OECD 401
<u>Subchronic</u>		
Oral		
NOAEL	Sprague-Dawley rat	1757 mg/kg/day, 28 days Fertility; Developmental; Data is for similar product.; OECD 421
NOEL	Sprague-Dawley rat	600 mg/kg/day, 90 days Data is for similar product.; OECD 408
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Corrosivity		
Rosin Ester		Irritation Corrosion - Skin, No skin irritation.; Data is for similar product. Result: Negative Species: New Zealand white rabbit Organ: Skin Test Duration: 4 hr Observation Period: 72 hr Notes: OECD 404
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Eye Contact		
Rosin Ester		Irritation Corrosion - Eye, No eye irritation.; Data is for similar product. Result: Negative Species: New Zealand white rabbit Organ: Eye Observation Period: 7 days Notes: OECD 405
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Skin sensitization		
Rosin Ester		Local Lymph Node Assay - Lowest Concentration Producing Reaction, Not a skin sensitizer. Result: Negative Species: Mouse Organ: Skin Notes: OECD 429
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Mutagenicity		
Rosin Ester		Germ Cell Mutagenicity: Ames Result: Negative Species: Salmonella typhimurium Notes: OECD 471 Germ Cell Mutagenicity: Chromosome Abberation Result: Negative Species: Hamster Organ: Ovary cells Notes: OECD 473 In vitro gene mutation study in mammalian cells Result: Negative Species: Mouse Notes: OECD 476
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall Evaluation of Carcinogenicity	Not listed.	

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Rosin Ester			
Aquatic			
Algae	EL50	Algae	> 1000 mg/l, 72 hr Data is for similar product.; OECD 201
	NOEL	Algae	1000 mg/l, 72 hr Data is for similar product.; OECD 201
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hr OECD 202
	NOEL	Daphnia	100 mg/l, 48 hr OECD 202
Fish	LL50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hr At this dose no death occurred.; Data is for similar product.; OECD 203
	NOEL	Fathead minnow (Pimephales promelas)	1000 mg/l, 96 hr Data is for similar product.; OECD 203

Persistence and degradability The product is not readily biodegradable.

Biodegradability

Percent degradation (Aerobic biodegradation)

Rosin Ester 0 % CO₂ Evolution Test
Result: Not readily biodegradable.
Species: Activated sewage sludge
Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log K_{ow})

Rosin Ester 3.97, at 20°C

Mobility in soil No data available.

Other adverse 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

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products 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.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) All components are either listed on the US EPA TSCA Inventory list and designated as "active" or are exempt from listing.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

16. Other information, including date of preparation or last revision

Issue date 05-06-2015
Revision date 09-02-2020
Version # 4.0
NFPA ratings Health: 1
Flammability: 1
Instability: 0

NFPA ratings



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Revision information

This document has undergone significant changes and should be reviewed in its entirety.