SAFETY DATA SHEET

1. Identification

Product identifier	**AQUATAC™ 6025**
Other means of identification	
SDS number	8917
Product Code	200000000521
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.
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

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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 (CO2).
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. Move containers from fire area if you can do so without risk.
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. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	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.

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.
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	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. Eye wash fountain and emergency showers are recommended.

9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Milky white
Odor	Mild
Odor threshold	Not available.
pH	6 - 8
Melting point/freezing point	32 °F (0 °C) (water)
Initial boiling point and boiling range	212 °F (100 °C) (water)
Flash point	> 212.0 °F (> 100.0 °C) Setaflash Closed Cup
Evaporation rate	0.3 (n-BuAc=1) (water)
Flammability (solid, gas)	Not available.
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	1.02 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	3000 - 8000 cP
Other information	
Chemical family	Resin Dispersion
Density	1020.00 kg/m³ at 20°C
Percent volatile	< 0.7 % Modified EPA Method 24
Pounds per gallon	8.8
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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.; OECD 405
Result: Negative
Species: New Zealand white rabbit
Organ: Eye
Test Duration: 72 hr
Observation Period: 7 days
Notes: OECD 405

Ingestion Expected to be a low ingestion hazard.

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

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
AQUATAC™ 6025		
Acute		
Dermal		
LD50	New Zealand white rabbit	3482 mg/kg, 5 days
Inhalation		
LC50	Rat	4957 mg/l, 4 Hours
Oral		
LD50	Sprague-Dawley rat	8705 mg/kg, 14 days

Components	Species	Test Results
Rosin Ester		
Acute		
Dermal		
LD50	New Zealand white rabbit	> 2000 mg/kg, 5 days At this dose no death occurred.; OECD 402.
	Rabbit	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 2000 mg/kg
	Sprague-Dawley rat	> 5000 mg/kg, 14 days At this dose no death occurred.; OECD 425

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Corrosivity

Rosin Ester — Irritation Corrosion - Skin, No skin irritation.; Data is for similar product.; OECD 404
Result: Negative
Species: New Zealand white rabbit
Organ: Skin
Test Duration: 4 hr
Observation Period: 72 hr

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.; OECD 405
Result: Negative
Species: New Zealand white rabbit
Organ: Eye
Test Duration: 72 hr
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.; Data is for similar product.; OECD 429
Result: Negative
Species: Mouse
Organ: Skin

Maximisation Assay (Magnusson and Kligman), Not a skin sensitizer.; Data is for similar product.; OECD 406
Result: Negative
Species: Guinea pig
Organ: Skin

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, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.; OECD 471
Result: Negative
Species: Salmonella typhimurium

Germ Cell Mutagenicity: Chromosome Abberation, This material is considered to be non-clastogenic to human lymphocytes in vitro.; Data is for similar product.; OECD 473
Result: Negative
Species: Human

In vitro gene mutation study in mammalian cells, Data is for similar product.; OECD 476
Result: Negative
Species: Mouse

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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.

Further information

Rosin Ester

Cytotoxicity - in Vitro, Not cytotoxic; Data is for similar product.;
Result: Negative
Species: Human
Organ: Lung cell tissue
Notes: BS 5736

Further information

Rosin Ester	Cytotoxicity - in Vitro, Not cytotoxic; Data is for similar product.; Result: Negative Species: Mouse Organ: Fibroblasts cells Test Duration: 72 hr Observation Period: 24 hr Notes: BS 5736 Cytotoxicity - in Vitro, Not cytotoxic; Result: Negative Species: Human Organ: Fibroblasts cells Notes: BS 30993-5

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	Green algae (Selenastrum capricornutum)	> 1000 mg/l, 72 hr Data is for similar product.; OECD 201
	NOEL	Green algae (Selenastrum capricornutum)	1000 mg/l, 72 hr Data is for similar product.; OECD 201
Crustacea	EL50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hr Data is for similar product.; OECD 202
	NOEC	Water flea (Daphnia magna)	1000 mg/l, 48 hr Data is for similar product.; OECD 202
Fish	LL50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hr 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

Biodegradability

Percent degradation (Aerobic biodegradation)

Rosin Ester	19.7 % OECD 301B, OECD 301B Result: Not readily biodegradable. Species: Activated sewage sludge Test Duration: 28 days

Bioaccumulative potential

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.

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. This product contains a component that is exempt from the TSCA Inventory under the Polymer Exemption Rule at 40 CFR 723.250.

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

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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.