Certified to NSF/ANSI/CAN 60

MUL = 250 mg/L

SAFETY DATA SHEET

Revision date 26-May-2021 **Revision Number** 4

1. Identification

Product identifier

Product Name UltraFloc® 7721

Other means of identification

Product Code(s) 3204H 9

Synonyms Water and Wastewater Treatment Coagulant/Flocculant

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available None known

Details of the supplier of the safety data sheet

Supplier Address
G2O Technologies LLC
1 Riverside Way,
Phillipsburg, NJ 08865
+1-800-453-2586 Hours: Monday-Friday 9:00-5:00 CST (Central Standard Time)

Contact Point sdsinfo@g2otech.com

Emergency Telephone CHEMTREC: (800) 424-9300
Outside USA - +1 (703) 527-3887 collect calls accepted

2. Hazard(s) identification

Classification

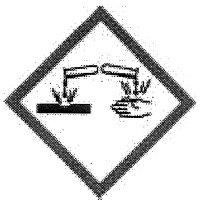
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Corrosive to metals	Category 1

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

WARNING

Hazard statements
Causes skin irritation
Causes serious eye irritation
May be corrosive to metals



Appearance Clear **Physical state** Liquid **Odor** No appreciable odor

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep only in original container

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Absorb spillage to prevent material damage

Precautionary Statements - Storage
Store in corrosive resistant container with a resistant inner liner

Conclusions are drawn from sources other than direct testing.

Other information
May be harmful in contact with skin.

3. Composition/information on ingredients

Substance

Synonyms Water and Wastewater Treatment Coagulant/Flocculant.

Chemical name	CAS No	Weight-%	Trade secret
Trade secret	Trade secret	45 - 55%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret. While some components are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

4. First-aid measures

Description of first aid measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. Call physician immediately.

Eye contact Immediately flush with plenty of water for at least 20 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek immediate medical attention.

Skin contact Immediately wash thoroughly with soap and water, remove contaminated clothing and footwear. Wash clothing before reuse. Get medical attention if irritation should develop.

Ingestion Seek medical attention immediately. Give large amounts of water to drink. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Skin, eye and respiratory tract irritation. May cause redness and tearing of the eyes. Itching. Burning sensation. Rashes. Redness. Dermatitis. Coughing and/ or wheezing. Difficulty in breathing. Stomach pains.

Indication of any immediate medical attention and special treatment needed

Note to physicians Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. Fire-fighting measures

Suitable Extinguishing Media
Large Fire Water Spray, Carbon Dioxide, Foam, Dry Chemical.
CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical Thermal decomposition (as may be experienced in a fire) may release toxic and/or hazardous gases, such as HCl and Cl_2.

Explosion data
Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment for fire-fighters Use self-contained breathing apparatus in confined areas; avoid breathing mist or spray.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective clothing and gloves.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Do not allow liquid to enter streams or waterways.

Methods for cleaning up Clear spills immediately. Contain large spill and remove using a vacuum truck. Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Ventilate area of leak or spill. Spills of solution are extremely slippery so all residue must be removed promptly.

Prevention of secondary hazards Do not permit run-off to get into sewers or surface waterways.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Keep container closed when not in use. Keep away from heat and open flame. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Wear chemical splash goggles, gloves, and protective clothing when handling. Avoid breathing vapors or mists. Use with adequate ventilation and employ respiratory protection where mist or vapors may be generated. FOR INDUSTRIAL USE ONLY.

Conditions for safe storage, including any incompatibilities

Storage Conditions Do not store in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum, mild steel, and stainless steel. Store in a cool, dry place away from direct heat. Keep in tightly closed container.

Packaging materials Store in corrosion resistant container with a resistant inner liner.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Trade secret	TWA: 1 mg/m³ respirable particulate matter	-	-

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, 'Industrial Ventilation, A Manual of Recommended Practices', most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).

Hand protection Appropriate chemical resistant gloves should be worn.

Skin and body protection Standard work clothing and work shoes.

Respiratory protection If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134.

Environmental exposure controls Do not allow liquid to enter streams or waterways.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear

Color	Colorless to yellow
Odor	No appreciable odor
Odor threshold	No information available

Property	Values	Remarks • Method
pH	3.5	As is
Melting point / freezing point	< -9.4 °C (15 °F)	None known
Boiling point / boiling range	~ 104 °C (220 °F)	No information available
Flash point	Not applicable No data available	No information available
Evaporation rate	No information available No data available	No information available
Flammability (solid, gas)	Not applicable No data available	No information available
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	No information available
Relative vapor density	No data available	No information available
Relative density	1.33 - 1.35	None known
Water solubility	Soluble below pH 4	No information available
Solubility(ies)	No information available	None known
Partition coefficient	No data available	None known
Autoignition temperature	Not applicable No data available	None known
Decomposition temperature	No information available	None known
Kinematic viscosity	No data available	No information available
Dynamic viscosity	<100 cps	Brookfield @ 25 °C

Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	11.0 - 11.3 lbs./gal.
Bulk density	No information available

10. Stability and reactivity

Reactivity No data available.

Chemical stability Stable.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization No.

Conditions to avoid Avoid contact with metals such as iron, brass, copper, aluminum and mild steel.

Incompatible materials Alkalis.

Hazardous decomposition products Thermal decomposition (as may be experienced in a fire) may release toxic and/or hazardous gases such as HCl and Cl_2.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of mist or vapor may cause respiratory tract irritation.

Eye contact May cause moderate eye irritation that can become severe with prolonged contact. Prolonged exposure to Aluminum salts may cause conjunctivitis.

Skin contact Prolonged and/or repeated contact may cause skin irritation.

Ingestion May cause irritation of the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing. Eye contact: Adverse symptoms may include the following: watering, redness. and irritation. Skin contact: Adverse symptoms may include the following: irritation and redness. Ingestion: Adverse symptoms may include the following: stomach pains, gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity

Numerical measures of toxicity
No information available

ATEmix (oral) 18374 mg/kg
ATEmix (dermal) 4004 mg/kg

Conclusions are drawn from sources other than direct testing.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade secret	= 9187 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.

Reproductive toxicity No information available.

Developmental toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Method	Species	Endpoint type	Effective dose	Exposure time	Results
EPA-821-R-02-012 and EPA-821-R-02-023	Pimephales promelas (Fathead	LC50	400 mg/L	48 hr, 3-brood, static, renewal	

	Minnow)				
EPA-821-R-02-012 and EPA-821-R-02-023	Pimephales promelas (Fathead Minnow)	IC25	29.57 mg/L	48 hr, 3-brood, static, renewal	
EPA-821-R-02-012 and EPA-821-R-02-023	Pimephales promelas (Fathead Minnow)	IC50	39.10 mg/L	48 hr, 3-brood, static, renewal	
EPA-821-R-02-012 and EPA-821-R-02-023	Ceriodaphnia dubia (Water Flea)	LC50	> 400 mg/L	96 hr, static, renewal	
EPA-821-R-02-012 and EPA-821-R-02-023	Ceriodaphnia dubia (Water Flea)	IC25	8.61 mg/L	96 hr, static, renewal	
EPA-821-R-02-012 and EPA-821-R-02-023	Ceriodaphnia dubia (Water Flea)	IC50	17.22 mg/L	96 hr, static, renewal	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade secret	--	LC50 (96 h static) 100 - 500 mg/L (Brachydanio rerio)	-	-

Persistence and degradability Not determined. No information available.

Bioaccumulation No information available.

Mobility Not determined. No information available.

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

Contaminated packaging Since empty containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT This product is excepted from DOT regulations under 49 CFR 173.154(d) when shipped by road or railway. The product exception is referenced in 49 CFR 172.101 Table. Packaging material must not be aluminum, steel or be degraded by this product

TDG Regulated
- **UN number or ID number** UN3264
- **UN proper shipping name** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution)
- **Transport hazard class(es)** 8
- **Packing group** III

MEX
- **Notes** Contact manufacturer.
- **Technical Name**

IATA Regulated
- **UN number or ID number** UN3264
- **UN proper shipping name** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution)

Transport hazard class(es)	8
Packing group	III
ERG Code	8L

IMDG

	Regulated
UN number or ID number	UN3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution)
Transport hazard class(es)	8
Packing group	III
EmS-No	F-A, S-B

15. Regulatory information

International Inventories

TSCA All ingredients are on the inventory or exempt from listing.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Trade secret	-	Present	Active
Water	7732-18-5	Present	Active

DSL/NDSL All ingredients are on the DSL inventory or exempt from listing. None of the ingredients are on the NDSL inventory.

EINECS/ELINCS All ingredients are on the EINECS inventory or are exempt from listing. None of the ingredients are on the ELINCS inventory.

ENCS All ingredients are on the inventory or exempt from listing.

IECSC All ingredients are on the inventory or exempt from listing.

KECL All ingredients are on the inventory or exempt from listing.

PICCS All ingredients are on the inventory or exempt from listing.

AICS All ingredients are on the inventory or exempt from listing.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	**Health hazards** 1	**Flammability** 0	**Instability** 0	**Special hazards**
HMIS	**Health hazards** 1	**Flammability** 0	**Physical hazards** 0	**Personal protection** B

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 26-May-2021
Revision Note No information available.

Disclaimer

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.

End of Safety Data Sheet