SECTION 1: IDENTIFICATION

1.1 Product identifier
Trade name **SQUALL**
Product code(s) 514-F-11-A

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses Adjuvant
Uses advised against None known

1.3 Details of the supplier of the safety data sheet
Oro Agri, Inc.
2788 S. Maple Ave.
Fresno CA 93725 USA
Telephone Number: +1(559) 442- 4996
E-mail Address: SDS-NA@oroagri.com

1.4 Emergency telephone number
Incident, Spill, Leak, Fire, Exposure or Accident
Call CHEMTREC Day or Night
Within USA and Canada: +1 (800) 424-9300
Outside USA: +1 (703) 741-5970.

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Physical Hazards
Not classified

Health hazards
Serious eye damage/eye irritation. Category 2A

2.2 Label elements
Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word: **WARNING**

Pictograms

Hazard statements
Causes serious eye irritation.

Precautionary statements - prevention
Wash hands and face thoroughly after handling. Wear eye protection/face protection.

Precautionary statements - response
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.

Precautionary statements - storage
Store in a well-ventilated place.

Precautionary statements - disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical Name	Wt%
Citric Acid	25 – <50%
Secondary Alcohol Ethoxylate	1 – 5 %
[1]Proprietary mixture	

Composition comments
[1]Components CAS numbers and exact concentration have been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General notes
Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation
If breathing is irregular or stopped, immediately seek medical assistance, and start first aid actions. Provide fresh air.

Following skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed
Harmful if inhaled. Causes eye irritation. Localized redness, edema, pruritis and/or pain.

4.3 Indication of any immediate medical attention and special treatment needed
In case of burns and frostbite: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Water spray, BC-powder, Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as this will spread the fire.

5.2 Special hazards arising from the substance or mixture
In case of fire and/or explosion do not breathe fumes.

Hazardous combustion products
Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters
Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles, Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel
Remove persons to safety. Ventilate affected area. Wear suitable protective clothing.

For emergency responders
Wear breathing apparatus if exposed to vapors/aerosols/gases. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Wear suitable protective clothing.

6.2 Environmental precautions
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3 Methods and material 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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.

Appropriate containment techniques
Use of adsorbent materials. Stop leak if safe to do so.

Equipment required for containment/clean-up
Non-sparking tools and equipment, collecting basins for spills, Absorbent material (e.g., sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.), Personal protective equipment: see section 8

Other information relating to spills and releases
Ventilate affected area. Place in appropriate containers for disposal. Take any precaution to avoid mixing with combustibles.

6.4 Reference to other sections
Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Recommendations
- **Measures to prevent fire**
Use local and general ventilation. Use only in well-ventilated areas.

- **Handling of incompatible substances or mixtures**
- Keep away from: Caustic solutions

Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink, and animal feeding stuffs. Avoid contact with eyes. Wear personal protective equipment/ face protection. Avoid release to the environment. Employ good industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities
Managing of associated risks

Control of the effects
Keep in a cool, well-ventilated place. Protect from sunlight. Store in a dry place. Store in a closed container. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Keep away from clothing as well as other incompatible materials. Incompatible materials: see section 10.

Protect against external exposure, such as
Frost, UV-radiation/sunlight

7.3 Specific end use(s)
None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This information is not available.

8.2 Exposure controls

Appropriate engineering controls
Exhaust ventilation. Use explosion-proof electrical/ventilating/lighting/tooling /equipment.

Individual protection measures (personal protective equipment)

Eye/face protection
Wear eye/face protection. Use safety goggle with side protection.

Skin protection
- **Hand protection**
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **Other protection measures**
Protective clothing against liquid chemicals. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Thermal hazards
Wear protective gloves against thermal risks (heat and/or fire).

Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface, and ground water.

8.2 Advice on general occupational hygiene

Employ good industrial hygiene practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Odorless to mild
Odour threshold:	No data available
pH Value	0.8 – 1.2
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporate rate	Not determined
Flammability (solid, gas)	Not relevant, (fluid)
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	1.167 g/cm³ at 25 °C
Solubility (water)	Complete
Partition coefficient (n-octanol/water)	Information not available
Auto-ignition temperature	Not determined

Decomposition temperature	No data available
Viscosity	Information not available

9.2 Other information
There is no additional information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
The product is stable and non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical stability
Stable under normal conditions of use.

10.3 Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid
Incompatible materials: see section 10.5 below .

10.5 Incompatible materials
Oxidizers

Release of flammable materials with:
Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
Hazardous combustion products: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Acute toxicity
Not classified as acutely toxic.

Skin corrosion/irritation
Not classified as corrosive.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization
Not classified as a respiratory or skin sensitizer.

Germ cell mutagenicity
Not classified as germ cell mutagenic.

Carcinogenicity
Not classified as carcinogenic.

Reproductive toxicity
Not classified as a reproductive toxicant.

Specific target organ toxicity - single exposure
Not classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure
Not classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Not an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 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.

12.2 Persistence and degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.

12.4 Mobility in soil
No data available for this product.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Endocrine disrupting properties
Information on this property is not available.

12.7 Other adverse effects
Data are not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages
Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: TRANSPORT INFORMATION

14.1 DOT
Not regulated as dangerous goods.

14.2 IATA
Not regulated as dangerous goods.

14.3 IMDG
Not regulated as dangerous goods.

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and IBC code
Not applicable

14.5 Additional Information
No additional information.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations specific for the product in question

National regulations (United States)
Superfund Amendment and Reauthorization Act (SARA TITLE III)
- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)
None of the ingredients are listed

Clean Air Act

None of the ingredients are listed

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Industry or sector specific available guidance(s)
NPCA-HMIS® III
Hazardous Materials Identification System. American Coatings Association.

NFPA® 704
National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Description
Flammability	material that must be preheated before ignition can occur
Health	material that, under emergency conditions, can cause serious or permanent injury
Instability	material that is normally stable, even under fire conditions

15.2 Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: OTHER INFORMATION

Version number: 2.0
Revision date: October 26, 2022

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissibleexposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2022	From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. Reprinted with permission.Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
ppm	Parts per million
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data
OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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End of SDS