

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/03/2016 Reviewed on 11/03/2016

1 Identification

- · Product identifier
- · Trade name: Kwik Start®LS
- Relevant identified uses of the substance or mixture and uses advised against

For agricultural use only. Not for human or animal consumption.

· Product description

A commercial agricultural product used to improve soil and/or plant health and for improved growth.

NPK Values: 3 - 10 - 1

- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Actagro, LLC

677 W. Palmdon Dr. #108

Fresno, CA 93704 Phone: (559) 369-2222 Fax: (559) 843-2845

· Emergency telephone number: INFOTRAC: (800) 535-5053

2 Hazard(s) identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Irritation Category 2B H319
Acute Toxicity (Oral) Category 5 H302

2.2 Label elements



Signal word: WARNING

Hazard Statement: H319 – Causes serious eye irritation

H315 – Causes skin irritation H302 – Harmful if swallowed

Precautionary

Statement: P261 – Avoid breathing dust / fume / gas / mist / vapors / spray

P273 - Avoid release to the environment

(Prevention): P280 - Wear protective gloves and eye / face protection Precautionary P337 + P313 - If eye irritation persists: get medical attention

Statement: P305 + P351 + P338 – IF IN EYES: Rinse with water for 15 to 20 minutes. Remove contact lenses, if present, and

(Response): continue rinsing eyes.

P302 + P352 – IF ON SKIN: Wash with plenty of water for 15 to 20 minutes

Precautionary Statement:

(General): P101 + P102 + P103 – If medical advice is needed, have product container or label available. Keep out of reach of

children. Read label before use

2.3 Other hazards

None known

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KEEP OUT OF REACH OF CHILDREN -

Appearance and odor: Black liquid with slight ammonia odor.

WARNING - CATEGORY 2B CAUSES EYE IRRITATION, CATEGORY 5 MAY BE HARMFUL IN CONTACT WITH SKIN, CATEGORY 5 HARMFUL IF

SWALLOWED

Potential Health effects

Routes of exposure Eye contact, skin contact, inhalation. Avoid breathing spray mist.

Eyes Causes serious eye irritation.

Skin Causes skin irritation.

Inhalation May be irritating to respiratory system.

May be irritating to mouth, throat, and stom

Ingestion May be irritating to mouth, throat, and stomach.

Target organs Eyes. Skin. Inhalation.

Signs and symptoms May be harmful if swallowed, absorbed through skin or inhaled.

Potential environmental effects This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large

or frequent spills can have harmful or damaging effect on the environment.

3 Composition/information on ingredients

CAS: 7732-18-5	water, distilled, conductivity or of similar purity	50-70%
RTECS: ZC 0110000		

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous Comp	Dangerous Components:		
CAS: 7722-76-1	Ammonium phosphate monobasic ♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	12-25%	
CAS: 1415-93-6	Leonardite	10-20%	

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness, place patient securely on side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Consume large amounts of water. If symptoms persist, consult a physician.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

If incinerated, product will release the following toxic fumes: Oxides of Carbon, Nitrogen (NOx), Potassium, Silicon and Ammonia.

- · Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Material can create slippery conditions.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling:

Avoid inhalation of dusts, vapors / spray and contact with eyes, skin and clothing. Do not breathe dusts, mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store above 40° F (4.4° C). Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed. Do not contaminate water, food or feed by storage or disposal.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

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· Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.

Skin Protection: Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove

contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware

that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as

MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory

protection if exposure concentrations are unknown.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid
Color: Black
Odor: Odorless
Odor threshold: Not determined.

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• **pH-value @ 20 °C (68 °F):** 6.2 - 6.6

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:Not determined.
100 °C (212 °F)Flash point:Not applicable.Flammability (solid, gaseous):Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

 Lower:
 0.0 Vol %

 Upper:
 0.0 Vol %

Vapor pressure @ 20 °C (68 °F): Not determined.
Density @ 20 °C (68 °F): 10.0 - 10.2 lbs/gal
Relative density Not determined.
Vapor density Not determined.
Evaporation rate Not determined.

· Solubility in / Miscibility with

Water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents: 0.0 % Water: 60-90 %

Other information
 No further relevant information available.

10 Stability and reactivity

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

None known.

10.5 INCOMPATIBILE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to oxides of carbon and oxides of sulfur, ammonia, and oxides of nitrogen.

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11 Toxicological information

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact.

LC₅₀ (rat): No data available

LD₅₀ Oral (rat): No data available

LD₅₀ Dermal (rat): No data available

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): No data available

Eye Irritation (rabbit): No data available

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available Germ Cell Mutagenicity: No data available

Interactive Effects: None known

* 12 Ecological information

- · *Toxicity* The hazards for the aquatic environment are unknown.
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- · Uncleaned packagings:
- · Recommendation:

Dispose of as unused product.

Disposal must be made according to official regulations.

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14 Transport information

14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6;

CLASS 70)

15 Regulatory information

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision 11/03/2016 -

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 3: Oxidising Solids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3