SAFETY DATA SHEET



LC-PLUS LIQUID

Section 1. Identification

GHS product identifier

Other means of

: LC-PLUS LIQUID : Not available

identification

Product code

: CVE23

Product type Identified uses

: Liquid

Supplier/Manufacturer

: For exclusive usage in animal feed: Clear View Enterprises

451 Agnes Drive

Tontitown, AR 72770

(866) 361-4689

Emergency telephone number (with hours of

operation)

:(866) 361-4689

Section 2. Hazards identification

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified

GHS label elements

Signal word

: No signal word

Hazard statements

: No known significant effects or critical hazards

Precautionary statements

Prevention: Not applicableResponse: Not applicableStorage: Not applicableDisposal: Not applicableHazards not otherwise: None known

classified

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification : Mixture: Not available

CAS number/other identifiers

CAS number : Not applicable

Product code : CVE23

Ingredient name	%	CAS number
(R)-(3-carboxy-2-hydroxypropyl) trimethylammonium hydroxide	≥1 - <3	541-15-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed potential acute health effects

Eye contact: No known significant effects or critical hazardsInhalation: No known significant effects or critical hazardsSkin contact: No known significant effects or critical hazardsIngestion: No known significant effects or critical hazards

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Over exposure signs/symptom

Eye contact: No known significant effects or critical hazardsInhalation: No known significant effects or critical hazardsSkin contact: No known significant effects or critical hazardsIngestion: No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

Media

: Use an extinguishing agent suitable for the surrounding fire

Unsuitable Extinguishing

Media

: None known

Specific hazards arising

from the chemical

: No specific fire or explosion hazard

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions

for fire-fighters

: No special measures are required

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full-piece operated in positive pressure mode

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency : No action shall be taken involving any personal risk or without suitable training.

Keep unnecessary and unprotected personnel from entering. Do not touch or walk

through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information

In Section 8 on suitable and unsuitable materials. See also the information in "For non-

Emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air)

Methods and materials for containment and cleaning up

Small Spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up

> if water-soluble. Alternatively, or if water-soluble, absorb with an inert dry material and and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, Large spill

> water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent material e.g. sand, erth, vermiculite or diatomaceous earth and place in container for dispolal according to local regulations (see section 13). Dispoes of via a

licensed waste disposal contractor. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8)

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene

measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate

containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

: None

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants

Environmental exposure

Controls

: Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are closed to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shield

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

necessary

Body protection: Personal protective equipment for the body should be selected based on the task being

Performed and the risks involved and should be approved by a specialist before

handling this product

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by

a specialist before handling this product

Respiratory protection : Use a properly fitted, air-purifying or supplied air respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid, [Clear]

Color : Characteristic light yellow

Odor : Characteristic
Odor threshold : Not available
pH : 4.5 to 6
Melting point : Not available
B oiling point : Not available
Flash point : Not available
Evaporation rate : Not available

Flammability (solid, gas)
Lower and upper explosive

(flammable) limits

Vapor pressure : Not available Relative density : Not available

Solubility in water : Completely miscible in water

: Not available

: Not available

: Not available

Partition coefficient: n-

octanol/water

Auto-ignition temperature : Not available Decomposition temperature : Not available Viscosity : Not available : Not available

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients

Chemical stability : The product is stable

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur

Conditions to avoid : No specific data

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity : There is no data available

Irritation/corrosion : There is no data available

Sensitization : There is no data available

Mutagenicity : There is no data available

Carcinogenicity : There is no data available

Reproductive toxicity : There is no data available

Teratogenicity : There is no data available

Specific target organ toxicity (single exposure)

: There is no data available

Specific target organ toxicity (repeated exposure)

: There is no data available

Aspiration hazard : There is no data available

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact: No known significant effects or critical hazardsInhalation: No known significant effects or critical hazardsSkin contact: No known significant effects or critical hazardsIngestion: No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No known significant effects or critical hazardsInhalation: No known significant effects or critical hazardsSkin contact: No known significant effects or critical hazardsIngestion: No known significant effects or critical hazards

Delayed and immediate effects and also chronic effects from short and long-term exposure

Short term exposure

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Potential immediate

effects

: No known significant effects or critical hazards

Potential delayed

effects

: No known significant effects or critical hazards

Long term exposure

Potential immediate

effects

: No known significant effects or critical hazards

Potential delayed

effects

: No known significant effects or critical hazards

Potential chronic health effects

General : No known significant effects or critical hazards Carcinogenicity : No known significant effects or critical hazards Mutagenicity : No known significant effects or critical hazards **Teratogenicity** : No known significant effects or critical hazards **Developmental effects** : No known significant effects or critical hazards **Fertility effects** : No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates : There is no data available

Section 12. Ecological information

Toxicity : There is no data available

Persistence

and degradability

: There is no data available

Bio accumulative

potential

: There is no data available

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available

Other adverse effects

: No known significant effects or critical hazards

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper Shipping name	-	-	-
Transport Hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

Special precautions for users

Transport within user's premises

: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR exempt/partial exemption

: Not determined

United States : All components are listed or exempted

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Inventory (TSCA 8b)

Clean Water Act

(CWA) 311

: Propionic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals)

SARA 302/304

Composition/information

on ingredients

: No products were found

SARA 304 RQ : Not applicable

SARA 311/312

Classification : Not applicable

Composition/Information on Ingredients

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
(R)-(3-carboxy-2-hydroxypropyl) Trimethylammonium hydroxide	≥1 - <3	No	No	No	Yes	No

SARA 313 : No products were found

State Regulations

Massachusetts: None of the components are listedNew York:None of the components are listedNew Jersey:None of the components are listedPennsylvania:None of the components are listed

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the state of California to cause cancer

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Ingredient name	Cancer	Reproductive	No significant risk level	Maximum Acceptable dosage level
Ethyl acrylate	Yes	No	No	No
Tert-butyl-4-methoxyphenol	Yes	No	Yes	No

Section 16. Other information

History

Date of issue : 03/08/2017

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Prepared by : Clear View Enterprises

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = Logarithm

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.