



CITRACORE™
POWERAG™

SAFETY DATA SHEET

according to 29 CFR 1910.1200 App D
Completion Date: February 29, 2024
Version number: 1.0

SECTION 1: IDENTIFICATION

1.1. Company information

PowerAG

2213 Leabrook Road, Lancaster PA 17601 • 1-800-842-2578 • powerag.com

1.2. Product identity

CitraCore

1.2. Other means of identification/product code

None known

1.3. Recommended use

Adjuvant

1.4. Restrictions on use

None known

1.5. Application method

Refer to package label.

1.6. 24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)

1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Physical hazards

Not classified

2.2. Health hazards

Serious eye damage/eye irritation

Category 2A

Acute toxicity (inhalation)

Category 4

2.3. Hazard communication standard (hcs) pictogram(s) and signal word(s)



WARNING

2.4. Hazard statement

Harmful if inhaled. Causes serious eye irritation.

2.5. Precautionary statement—prevention

Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Wear eye protection/face protection. Avoid release to the environment.

2.6. Response

If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. **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. Call a POISON CENTER or doctor if you feel unwell.

2.7.1 Storage

Store in a well-ventilated place.

2.7.2 Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.7.3 Hazard(s) not otherwise classified (HNOC)

None known

2.7.4 Supplemental information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures

Chemical name	CAS Number	%
Alcohol Ethoxylate	84133-50-6	5–10
Proprietary Mixture ¹		90–95

Composition Comments: ¹Components not listed are either non-hazardous or are below reportable limits.

Components CAS numbers and exact concentration have been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES**4.1. Inhalation**

If breathing is irregular or stopped, immediately seek medical assistance, and start first aid actions.

Move to fresh air. Call a physician if symptoms develop or persist.

4.2. Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

4.3. Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

4.4. Ingestion

Rinse mouth. Get medical attention if symptoms occur. Do NOT induce vomiting.

4.5. Most important symptoms/effects, acute and delayed

Serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Harmful if inhaled.

4.6. Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

4.7. General information

If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

SECTION 5: FIREFIGHTING MEASURES**5.1. Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

5.2. Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.3. Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

5.4. Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

5.5. Firefighting equipment/instructions

In case of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance.

5.6. Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

5.7. General fire hazards

Material will burn in a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.2. 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. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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.

6.3. Environmental precautions

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid breathing mist/vapors/spray. Use only outdoors in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

8.1. US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Proprietary component	PEL	1900 mg/m ³ 1000 ppm
Proprietary component	PEL	2 mg/m ³

8.2. US ACGIH Threshold Limit Values

Components	Type	Value	Form
Proprietary component	TWA	2 mg/m ³	Inhalable fraction and vapor
Proprietary component	STEL	1000 ppm	
Proprietary component	Ceiling	2 mg/m ³	

8.3. US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Proprietary component	TWA	10 mg/m ³
Proprietary component	TWA	1900 mg/m ³ 1000 ppm
Proprietary component	Ceiling	2 mg/m ³

8.4.1. Biological limit values

No biological exposure limits noted for the ingredient(s).

8.4.2. Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

8.5.1. Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear face shield if there is risk of splashes.

8.5.2. Skin protection/hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

8.5.3. Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

8.5.4. Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

8.5.5. Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

8.5.6. Environmental exposure controls

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

8.5.7. General hygiene considerations

When using do not smoke. Keep away from food and drink. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state: Liquid

Form: Liquid

Color: Green (various)

Odor: Wintergreen

Odor threshold: Not relevant

pH: 6.8–7.8

Melting point/freezing point: Not available

Initial boiling point and

boiling range: Not available

Flash point: 50.5 °C (122.9 °F) Pensky-Martens
Closed Cup (760 mmHg)

Evaporation rate: Not available

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: Not available

Vapor density: Not available

Relative density temperature: 1.01–1.02

Solubility(ies)

Solubility (water): Complete

Solubility (solvents): Not available

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: 40–120 cPs

OTHER INFORMATION

Bulk density: Not relevant

Explosive properties: Not explosive

Oxidizing properties: Not oxidizing

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. If heated

Risk of ignition.

10.3. Chemical stability

Material is stable under normal conditions.

10.4. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.5. Conditions to avoid

Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.6. Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lightning/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.7. Incompatible materials

Strong oxidizing agents.

10.8. Hazardous decomposition products

Thermal decomposition of this product can generate carbon monoxide, carbon dioxide, sulfur oxides, and sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on possible routes of exposure

11.1.1. Inhalation

Harmful if inhaled.

11.1.2. Skin contact

Causes skin irritation.

11.1.3. Eye contact

Causes serious eye irritation.

11.1.4. Ingestion

May cause discomfort if swallowed.

Symptoms related to the physical, chemical, and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

11.2. Information on toxicological effects

Not expected to be acutely toxic.

Product	Species	Test Results
CitraCore (CAS Mixture)		
Acute		
Dermal		
<i>Liquid</i>		
LD50	Rat	>2000 mg/kg OECD 402
Inhalation		
LC50	Rat	>2.13 mg/kg OECD 403
Oral		
<i>Liquid</i>		
LC50	Rat	>2000 mg/kg OECD 425

Skin corrosion/irritation

Causes skin irritation.

Skin contact

CitraCore

OECD 404

Result: Irritant

Species: Rabbit

Severity: Slight

Serious eye damage/irritation

Causes serious eye irritation.

Eye contact

CitraCore

OECD 405

Result: Irritant

Species: Rabbit

Respiratory or skin sensitization

Not a respiratory sensitizer.

Sensitization

CitraCore

OECD 406

Result: Non-sensitizing

Species: Guinea pig



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Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall evaluation of carcinogenicity

Proprietary component: 3—Not classifiable

NTP Report on Carcinogens: Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

Reproductive toxicity: Not classified

Specific target organ toxicity—single exposure: Not classified

Specific target organ toxicity—repeated exposure: Not classified

Aspiration hazard: Not an aspiration hazard

Chronic effects: Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

This product is not classified as environmentally hazardous under 29 CFR 1910.1200. 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

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Data are not available.

12.4. Mobility in soil

Data are not available.

12.5. Results of PBT and vPvB assessment

Data are not available.

12.6. Endocrine disrupting properties

Data are not available.

12.7. 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.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local, regional, national, and international regulations.

13.2. Local disposal regulations

Dispose in accordance with all applicable regulations.

13.3. Hazardous waste code

The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.

13.4. 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).

13.5. 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.

SECTION 14: TRANSPORT INFORMATION

14.1. DOT

Not regulated as dangerous goods. See additional information in this section.

14.2. IATA

Not regulated as dangerous goods. See additional information in this section.

14.3. IMDG

Not regulated as dangerous goods. See additional information in this section.

14.4. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

14.5. Additional Information

Test results from Sustained Combustion testing (L.2 of Part 3 section 32 of UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria) indicate that this material does not sustain combustion. At the discretion of the shipper, this material does not need to be considered a Dangerous Good when offered for transport by ground in the U.S. according to 49 CFR 173.120(b)(3), by air according to IATA DGR section 3.3.1.3(a), or by sea according to IMDG Code chapter 2.3.1.3.1.

SECTION 15: REGULATORY INFORMATION

15.1. US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Additional information is given in the Safety Data Sheet.

15.2. California Prop 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

15.3. International inventories

Country or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date: February 29, 2024

Version number: 1.0

Disclaimer:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. PowerAG cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with this product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage, and disposal of the product, and to assume liability for loss, injury, damage, or expense due to improper use. As conditions of actual product use are beyond the control of the supplier, it is assumed that users of this material have been fully trained in accordance with all applicable occupational health and safety requirements.

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