

Safety Data Sheet

Issue Date 09-Apr-2010 Revision Date: 22-Jun-2015 Version 2

1. IDENTIFICATION

Product Identifier

Product Name United 339 CYCLE SMART

Other means of identification

SDS # UNITED-339

Recommended use of the chemical and restrictions on use

Recommended Use Stabilized Bromine Treatment

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

United Laboratories, Inc. 320 37th Avenue St. Charles, IL 60174 www.unitedlabsinc.com www.unitedlabsinc.ca

Emergency Telephone Number

Company Phone Number 800-323-2594 (to reorder)

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion Category 1A

Label elements

Signal word DANGER

Hazard statements

Causes severe skin burns and eye damages.



Appearance Light yellow liquid Physical State Liquid Odor Slight Chlorine Scent

Emergency Overview

Precautionary Statements

Do not breathe dust, mist, spray.

If swallowed: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove 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. Immediately call a POISON VENTER or doctor/physician.

Wash contaminated clothing before reuse.

Store locked up.

Wash all exposed body parts thoroughly after handling exposed body parts.

Wear eye protection, face protection, protective clothing, and protective gloves.

Specific treatment- See First Aid measures on this label First aid measures.

Do not mix with acids or ammonia - may generate dangerous chlorine gas.

Do not mix with other products.

Precautionary Statements - Disposal

Dispose of contents/container to proper treatment facilities in accordance with all applicable local, state, and federal regulations.

Precautionary Statements - Storage

Store according to local rules and regulations.

Hazards not otherwise classified (HNOC)

None known

Other Information

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight% | GHS-US Classification |
|--|-----------|---------|-----------------------|
| Sodium hypochlorite solution, conc active chlorine=12.5% | 7681-52-9 | 50-60 | Skin corr. 1A |
| Sodium hydroxide, conc=50%, aqueous solution | 1310-73-2 | 2-5 | Skin corr. 1A |

4. FIRST-AID MEASURES

First Aid Measures

General Advice Check the vital functions. Unconscious: maintain adequate airway and respiration.

Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition:

doctor/hospital.

Eye ContactRinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents.

Take victim to an ophthalmologist.

Skin Contact Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing.

Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a

doctor/medical service. If burned surface > 10%: take victim to hospital.

Inhalation Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Ingestion Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not

induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the

doctor/hospital.

Most important symptoms and effects

Symptoms/injuries Causes severe skin burns and eye damage.

Symptoms/ injuries after eye contact Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after skin contactCaustic burns/corrosion of the skin.

Symptoms/injuries after inhalation Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the

nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Possible laryngeal spasm/edema. Risk of lung edema. Respiratory difficulties.

the gastrointestinal tract. Shock. Disturbances of consciousness.

FOLLOWING SYMPTOMS MAY APPEAR LATER: Tumors of the

gastrointestinal tract.

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Fall of hair. Skin

Chronic Symptoms rash/inflammation. Gastrointestinal complaints.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Adapt extinguishing media to the environment.

Symptoms/injuries after ingestion

Unsuitable Extinguishing Media No unsuitable extinguishing media known.

Specific Hazards Arising from the Chemical

DIRECT FIRE HAZARD. Noncombustible. INDIRECT FIRE HAZARD. Reactions involving a fire hazard: see "Reactivity Hazard".

Hazardous Combustion Products INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazards".

Reactivity

On burning: release of toxic and corrosive gases/vapors (chlorine, hydrogen chloride). Decomposes slowly on exposure to air: oxidation which increases fire hazard and release of toxic and corrosive gases/vapors (chlorine). This reaction is accelerated on exposure to light, on exposure to temperature rise and on exposure to (some) metals. Reacts violently with (some) acids/bases: release of toxic and corrosive gases/vapors (chlorine).

Protective equipment and precautions for firefighters

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Gloves. Face-shield. Corrosion-proof suit. Large spills/in enclosed spaces: compressed air

apparatus. Large spills/in enclosed spaces: gas-tight suit. Reactivity hazard: compressed

air/oxygen apparatus. Reactivity hazard: gas-tight suit.

Emergency Precautions Keep upwind. Mark the danger area. Seal off low-lying areas. Close doors and windows of

adjacent premises. No naked flames. Wash contaminated clothes. Large spills/in confined

spaces: consider evacuation. In case of reactivity hazard: consider evacuation.

Environmental Precautions Prevent soil and water pollution. Prevent spreading in sewers.

Methods and material for containment and cleaning up

Methods for Clean-Up Liquid spill: neutralize. Take up liquid spill into a noncombustible material e.g.: sand, earth,

> vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Spill must not return in its original container. Damaged/cooled tanks must be emptied. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash

clothing and equipment after handling.

Method of containment Contain released substance, pump into suitable containers. Consult "Material-handling" to

select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. If reacting: dilute toxic gas/vapor with water spray. Take account of toxic/corrosive precipitation water. Heat exposure: dilute toxic gas/vapor with water spray.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Comply with the legal requirements. Remove contaminated clothing immediately. Clean

> contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local

exhaust/ventilation or with respiratory protection.

Hygiene measures Wash all exposed body parts thoroughly after handling all exposed body parts.

Conditions for safe storage, including any incompatibilities

Technical Measures Comply with applicable regulations.

Storage Conditions Keep only in original container in a cool, well-ventilated place away from: keep container

closed when not in use.

Incompatible Products Strong bases. Strong acids.

Incompatible Materials Sources of ignition. Direct sunlight.

Heat and Ignition Sources KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on Mixed Storage KEEP SUBSTANCES AWAY FROM; reducing agents. (strong) acids. (strong) bases.

Metals. Organic materials.

Storage Area Store in a cool area. Keep out of direct sunlight. Store in a dry area. Store in a dark area.

Keep locked up. Provide for a tub to collect spills. Keep only in the original container. Meet

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all legal requirements.

Special Rules on Packaging SPECIAL REQUIREMENTS: closing, Clean, Opaque, Correctly labeled, Meet the legal

requirements. Secure fragile packaging in solid containers.

Packaging Materials SUITABLE MATERIALS: synthetic material. Polyethylene. Glass. Stoneware/porcelain.

MATERIAL TO AVOID: aluminum. Zinc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|----------------------------|----------|------------|
| Sodium hydroxide, conc=50%, aqueous solution 1310-73-2 | 2mg/m ³ ceiling | - | - |

Individual protection measures, such as personal protective equipment

Personal Protective equipment Avoid all unnecessary exposure.

Material for Protective clothing GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE:

Neoprene. PVC. GIVE LESS RESISTANCE: no data available. GIVE POOR

RESISTANCE: No data available.

Hand Protection Gloves

Eye/Face Protection Face shield.

Skin and Body Protection Corrosive-proof clothing.

Respiratory Protection Wear gas mask with filter type B if conc. In air> exposure limit. High vapor/gas

concentration: self-contained respirator.

General Hygiene Considerations When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

AppearanceLight yellow liquidOdorSlight Chlorine Scent

Color Light yellow **Odor Threshold** Not determined

Property Values Remarks • Method

12.5-13.7

Melting Point/Freezing Point Not determined /<0°C(32°F) Literary Reference

Boiling Point/Boiling Range >100°C(210°F) **Flash Point** Not determined Not determined **Evaporation Rate** Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** 17.5 mm Hg Vapor Density Not determined **Specific Gravity** 1.20-1.30 Water Solubility Soluble in water.

(1=Water)

Density 1.24g/ml Solubility in other solvents Not determined

Partition Coefficient Not determined **Auto ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined

Property Values Remarks • Method

Dynamic Viscosity Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

VOC Content None

10. STABILITY AND REACTIVITY

Reactivity

On burning: release of toxic and corrosive gases/vapors (chlorine, hydrogen chloride). Decomposes slowly on exposure to air: oxidation which increases fire hazard and release of toxic and corrosive gases/vapors (chlorine). This reaction is accelerated on exposure to light, on exposure to temperature rise and on exposure to (some) metals. Reacts violently with (some) acids/bases: release of toxic and corrosive gases/vapors (chlorine).

Chemical Stability

Unstable on exposure to light.

Possibility of Hazardous Reactions

Not established.

Conditions to Avoid

Direct sunlight. Extremely high or low temperatures.

Incompatible Materials

String acids. Strong bases. Do not mix with acids or ammonia - may generate dangerous chlorine gas. May be corrosive to metal.

Hazardous Decomposition Products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: corrosive vapors.

11. TOXICOLOGICAL INFORMATION

Product Information

| Chemical Name | LD50 Oral rat | LD50 Dermal rabbit | LC50 Inhalation |
|--|---------------|--------------------|-----------------|
| Sodium hypochlorite, solution, conc. Active chlorine=12.5% | >5000mg/kg | >10000mg/kg | - |
| 7681-52-9 | | | |

Information on likely routes of exposure

Product Information

Symptoms/injuries after ingestion

Eye Contact Not classified

Skin Contact Causes severe skin burns and eye damage.

Inhalation Not classified

Ingestion Not classified

Symptoms/injuries Causes severe skin burns and eye damage.

Symptoms/ injuries after eye contact Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after skin contact Caustic burns/corrosion of the skin.

Symptoms/injuries after inhalation Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the

nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Possible laryngeal spasm/edema. Risk of lung edema. Respiratory difficulties.

the gastrointestinal tract. Shock. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Tumors of the

gastrointestinal tract.

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Fall of hair. Skin

Chronic Symptoms rash/inflammation. Gastrointestinal complaints.

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

Carcinogenicity Not classified

Respiratory or skin sensitization Not classified

Germ Cell Mutation Not classified

Numerical measures of toxicity

Acute Toxicity Not classified

Reproductive Toxicity Not classified

Specific Target Organ Toxicity (repeated exposure) Not classified

Aspiration Hazard Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects. Avoid releasing to the environment.

Persistence/Degradability

Low potential for absorption into soil.

Bioaccumulation

Not determined

Mobility

May be harmful to plant growth, blooming and fruit formation.

Other Adverse Effects

Avoid release into the environment.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesRemove waste in accordance with local, state and/or national regulations. Remove for

physicochemical/ biological treatment. Do not discharge into surface water. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to proper treatment facilities in accordance with all applicable local, state & federal

regulations.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name
UN Number

Hypochlorite solution
UN1791

Packaging Group || Hazard Class |

<u>IATA</u> Not determined

IMDG Not determined

15. REGULATORY INFORMATION

US Federal Regulations

TSCA

Not determined

SARA 302

Not determined

SARA 311/312

Not determined

SARA 313

Not determined

16. OTHER INFORMATION

NFPA **Health Hazards Flammability** Instability **Special Hazards** HMIS **Health Hazards Flammability Physical Hazards Personal Protection** n & D

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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 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