# SAFETY DATA SHEET

Issue Date 15-Apr-2015 Revision Date 18-May-2015 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name KetoCheck

Other means of identification

Product Code CTR FP 10040677

Recommended use of the chemical and restrictions on use

Recommended Use Consumer use.

Uses advised against No information available.

Supplier

Creative Science, LLC 455 Sovereign Court Ballwin, MO 63011

Emergency telephone number

Emergency Telephone INFOTRAC:1-800-535-5053 (US & Canada), 1-352-323-3500 (International)

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2

### Label elements

# **Emergency Overview**

# Warning

### Hazard statements

Harmful if inhaled. Causes serious eye irritation.



Appearance Powder Physical state Solid Odor Ammonia

#### **Precautionary Statements - Prevention**

- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear eye/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
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell

# Hazards not otherwise classified (HNOC)

Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Ammonium Sulfate	7783-20-2	55-65*
Sodium carbonate	497-19-8	35-45*

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret

# 4. FIRST AID MEASURES

First aid measures

General advice Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

If symptoms persist, call a physician.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. If symptoms persist, call a

physician.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media

Use. Dry chemical. Water spray (fog). Foam. Carbon dioxide (CO2).

### Specific hazards arising from the chemical

If product is heated, flammable concentrations of ammonia in air can occur. Ammonia will burn and can explode at concentrations of 10-25% ammonia by volume in air. Toxic fumes may be released.

# **Explosion data**

Sensitivity to Mechanical Impact None.

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Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Keep

people away from and upwind of spill/leak.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush

away traces with water. Take precautionary measures against static discharges.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep in properly labeled containers.

**Incompatible materials** Bleaching agent. Oxidizing agents. Acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** 

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering Controls** Local and General Ventilation.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical stateSolidAppearancePowderOdorAmmonia

Color White and Red Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

рН

Melting point/freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific Gravity
Water solubility

No information available
No information available
No information available
No information available
Partially soluble

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Oxidizing properties
No in:
No in:
No in:
No in:
No in:

No information available No information available No information available No information available No information available

**Other Information** 

**Density** No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Hazardous polymerization**

Will not occur.

#### **Conditions to avoid**

None known.

# **Incompatible materials**

Bleaching agent. Oxidizing agents. Acids.

#### **Hazardous Decomposition Products**

Ammonia. Oxides of sulfur. Sodium oxides. Amines.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** No data available.

**Eve contact** No data available.

**Skin Contact** No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Sulfate 7783-20-2	= 2000 mg/kg (Rat)	-	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m³ ( Rat ) 2 h

#### Information on toxicological effects

Symptoms No information available.

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

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Aspiration hazard
No information available.
No information available.
No information available.
No information available.

#### Numerical measures of toxicity - Product Information

# The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2528 mg/kg ATEmix (inhalation-dust/mist) 2.9 mg/L

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	

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Ammonium Sulfate		250: 96 h Brachydanio rerio		14: 48 h Daphnia magna
7783-20-2		mg/L LC50 480: 96 h		mg/L LC50 423: 24 h
		Brachydanio rerio mg/L		Daphnia magna mg/L EC50
		LC50 flow-through 420: 96 h		
		Brachydanio rerio mg/L		
		LC50 semi-static 18: 96 h		
		Cyprinus carpio mg/L LC50		
		32.2 - 41.9: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 flow-through 5.2 - 8.2:		
		96 h Oncorhynchus mykiss		
		mg/L LC50 static 100: 96 h		
		Pimephales promelas mg/L		
		LC50 123 - 128: 96 h		
		Poecilia reticulata mg/L		
		LC50 semi-static 126: 96 h		
		Poecilia reticulata mg/L		
		LC50 460 - 1000: 96 h		
		Leuciscus idus mg/L LC50		
		static		
Sodium carbonate	242: 120 b Nitzoobio mg/l	0.000.0		265: 49 h Donhnia magna
497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis		265: 48 h Daphnia magna
497-19-6	EC20	macrochirus mg/L LC50		mg/L EC50
		static 310 - 1220: 96 h		
		Pimephales promelas mg/L		
		LC50 static		

# Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

#### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container, unless specified by the manufacturer.

# **14. TRANSPORT INFORMATION**

DOT

**Description** MEDICINES, NOI NMFC 58770, SUB 2

# 15. REGULATORY INFORMATION

U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

**International Inventories** 

TSCA Not Listed
DSL/NDSL Not Listed
EINECS/ELINCS Not Listed
ENCS Not Listed
IECSC Listed
KECL Not Listed

PICCS Listed AICS Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ammonium Sulfate	Х	Х		Х		Χ	Х	Х	Х	Х
Sodium carbonate	Х	Х		Х		Χ	Х	Х	Х	Χ

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Ammonium Sulfate - 7783-20-2	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium Sulfate 7783-20-2		X	Х

#### **International Regulations**

16. OTHER INFORMATION							
NFPA	Health hazards 0	Flammability 0	Instability 0	Physical and Chemical Properties -			
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X			

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**End of Safety Data Sheet** 

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