



SAFETY DATA SHEET

1. Product and company identification

Product Name TOTAL TREAT
UN/ID No. UN1814 Potassium Hydroxide

Recommended use of the chemical and restrictions on use

Recommended Use Broiler Treatment

Supplier: **Butler Chemicals, Inc.**
3070 E. Ceena CT.
Anaheim, CA. 92806

Print date: May 17, 2015

Responsible name: K.B.
In case of emergency: **HEALTH EMERGENCIES — SPILL EMERGENCIES**
CALL INFOTRAC 1(800) 535-5053

Product type: Mixture

2. Hazards identification

Appearance: Dark brown **Physical State:** Liquid **Odor:** Strong chemical odor

Signal Word: Danger



Main Hazard: May cause severe irritation of the respiratory tract with coughing, choking, pain and possibly burns of the mucous membranes

Hazard Statement: Causes severe skin burns, tissue and eye damage, respiration tract and mucus membranes and deep tissue

Precautionary Statements – Preventions

Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area
Do not breath dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements – Response

Immediately call a poison center or doctor/physician
Eyes: Flush with large amounts of water. Consult a physician immediately
Skin: Wash with water. Remove contaminated clothing and foot wear seek medical attention
Inhalation: Get person out of contaminated area to fresh air. Seek medical attention.
Ingestion: No not induce vomiting. Give large quantities of water or milk. Consult physician immediately

Precautionary Statements – Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements –Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Ecological Hazards: This material has exhibited moderate toxicity to aquatic organisms.

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Potassium hydroxide	1310-58-3	24%

4. First aid measures

Eye contact:	Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Skin contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Inhalation:	Move person to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion:	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.
Note to physician	The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically

5. Fire-fighting measures

Fire Hazard:	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.
<u>Extinguishing media:</u>	Use extinguishing agents appropriate for surrounding fire.
Special protective equipment for fire-fighters:	Wear self contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Fire Fighting:	Move container from fire area if it can be done without risk. Cool containers with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.
Flash point:	Not flammable

6. Accidental release measures

Personal precautions:	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
<u>Methods for cleaning up</u>	Dike contain liquid area using protective clothing, absorb with sand or other absorbent. Pick up and place in suitable, closed container for disposal. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Released should be reported, if required. To appropriate agencies. Dispose of all waste and cleanup materials in accordance with regulations.

7. Handling and storage

Handling: See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and splattering.

Storage Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep away from incompatible materials (see section 10 for incompatibilities).

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.
Engineering Controls Apply technical measures to comply with the occupational exposure limits. Local exhaust ventilation recommended. Eye wash stations. Showers and washing facilities accessible to areas of use and handling.

Individual-protection measures, such as personal protective equipment

Eye/Face Protection Wear chemical anti-splash safety glasses or goggles with a face shield to protect against eye and skin contact when appropriate.

Skin and Body Protection Wear nitrile or rubber gloves, apron or lab coat, as appropriate, to prevent skin contact

Respiratory Protection Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator

General Hygiene considerations Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling

9. Physical and chemical properties

Physical state	Liquid
Flash Point	>200 Deg. F.
Color	Dark brown liquid
pH	13.2
Vapor Pressure (mm GHz)	N/E
Specific Gravity (H20=1)	0.9
Percent Volatile	71%
Evaporation Rate (N-Butyl Acetate) =1	N/A
Solubility in Water	Complete
Reactivity in Water	None
VOC	8.97 grams per liter

10. Stability reactivity

Stability	Stable at normal temperatures and pressures.
Hazardous polymerization	Will not Occur
Conditions to avoid	Mixing with water, acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.
Materials to avoid	Acids, flammable liquids, halogenated compounds, prolonged contact with aluminum, brass, borzse, copper, lead, tin, zinc or other alkali sensitive metals or alloys.
Hazardous decomposition products	None known

11. Toxicological information

Acute toxicity:

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral – rat 214 mg/kg

Carcinogenicity:

No components of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs & Symptoms of Exposure:

Skin	Irritation, Redness, Itchiness
Eyes	Irritation, Redness, watering eyes, itchiness
Respiratory	Irritation, coughing, wheezing
Ingestions	Irritation, nausea, vomiting, diarrhea

Chronic Toxicity:

May cause damage to the following organs: upper respiratory tract, skin, eyes.

12. Ecological information

Environmental effects:

This material has exhibited moderate toxicity to aquatic organisms

13. Disposal considerations

Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSUSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

Regulatory	UN number	Proper shipping name	Classes	PG*
DOT Classification	UN1814	Potassium Hydroxide Solution	8	II

*PG: Packing group

15. Regulatory information

International Inventories

Not determined

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

16. Other information

HMS

Health
2

Flammability
0

Reactivity
0

Personal Protection
C

Indicates information that has changed from previously issued version.

Disclaimer

The information provided in the 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