



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PET ZONE WITH HYDROCID

CD19

NFPA/HMIS: Health 2
Flammability 0
Reactivity 1

MATERIAL SAFETY DATA SHEET U.S. DEPARTMENT OF LABOR
COMPLIES WITH USDL SAFETY AND HEALTH REGULATIONS 29CFR1910.1200

SECTION 1. COMPANY AND PRODUCT IDENTIFICATION

PRODUCT NAME: Pet Zone with Hydrocide

MANUFACTURER:

Bridgepoint Systems
542 W. Confluence Avenue
Salt Lake City, UT 84123
Telephone: 801-261-1282
Prepared 5/1/08

EMERGENCIES: (800) 535-5053 (Infotrac)

SECTION 2. HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS

Sodium Carbonate Peroxyhydrate (CAS # 15630-89-4)

OSHA PEL

See section 8

TLV

See section 8

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

Toxicity effects principally related to its irritating properties.
Does not present any significant hazard to the environment.
Supports combustion of other substances (oxidizing product).

Primary routes of entry:

Eyes, skin contact/absorption, inhalation or ingestion

Potential Effects of exposure: Irritating to mucous membranes, eyes and skin.

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCIDIC CD19

Page 2 of 8

Inhalation:

Slight nose and throat irritation.

At high concentrations, cough.

In case of repeated or prolonged exposure; risk of sore throat, nosebleeds, and chronic bronchitis.

Eyes:

Severe eye irritation, watering, redness; can cause burns to the eyes.

Risk of serious or permanent eye lesions.

Skin contact:

Slight irritation.

In case of repeated contact: risk of dermatitis.

Ingestion:

Severe irritation of the mouth, throat, esophagus and stomach.

Bloating of stomach, belching.

Nausea and vomiting.

Carcinogenicity:

NTP: Known – No; Anticipated – No OSHA: No IARC: No

SECTION 4. FIRST-AID MEASURES

General Recommendations: Do not dry soiled clothing near an open flame or incandescent heat source.

Inhalation:

Remove the subject from dusty environment.

Consult a physician in case of respiratory symptoms.

Eyes:

Flush eyes as soon as possible with running water for 15 minutes, while keeping the eyelids open.

Consult an ophthalmologist in all cases.

Skin:

Remove contaminated shoes, socks and clothing; wash the affected skin with running water.

Clean clothing.

Consult a physician in case of persistent pain or redness.

Ingestion: Consult a physician immediately in all cases.

If the subject is completely conscious:

Rinse and administer fresh water.

Do not induce vomiting.

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCIDIC CD19

Page 3 of 8

If the subject is unconscious:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Loosen collar and tight clothing; lay the victim on his/her left side.

Keep warm (blanket).

Do not induce vomiting.

Medical Treatment/Notes to Physician: See Section above.

SECTION 5. FIRE-FIGHTING MEASURES

Flash point: Not applicable.

Auto-ignition Temperature: Not applicable.

Flammability Limits: Non-flammable.

Unusual Fire and Explosion Hazards: Oxidizer.

Extinguishing Methods

Common:

Water, water spray.

In case of fire in close proximity, all means of extinguishing are acceptable

(subject to sections below).

Inappropriate extinguishing means: No restriction.

Fire Fighting Procedures

Specific hazards:

Oxygen released on exothermic decomposition may support combustion in case of surrounding fire.

Pressure burst may occur due to decomposition in confined spaces/containers.

Wet product decomposes exothermally and may cause combustion of organic materials.

Do not spray the dry product with water, except in case of fire.

Protective measures in case of intervention:

Evacuate all non-essential personnel.

Intervention should only be made by personnel who are trained and aware of the hazards of product.

Other precautions: If safe to do so, remove the exposed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCID CD19

Page 4 of 8

Precautions:

Observe protective measures given in sections 5 and 8.

Avoid materials and products which are incompatible with the product (see section 10).

Avoid direct contact of the product with water.

Cleanup methods:

Collect the product with suitable means, shovel, or sweep, avoiding dust formation.

All receiving equipment should be clean, dry, vented, labeled and made of materials compatible with the product.

Do not return spilled or contaminated material to inventory.

In order to avoid the risk of contamination, the recovered product must not be returned to the original container.

Clean area with large quantities of water.

SECTION 7. HANDLING AND STORAGE

Handling:

Clean and dry process and other piping and equipment before using this product.

Never return unused product to storage container.

Keep away from incompatible products.

Containers and equipment used to handle the product should be used exclusively for that product.

Avoid contact with water from humidity.

For more information consult the supplier.

Storage:

Store in a dry area.

Protect from direct sunlight.

Store away from heat sources.

Keep away from reactive products (see section 10).

Store in vented containers.

Store in temperatures less than 40 deg C (104 deg F).

Keep in container fitted with safety valve or vent.

Container must be used exclusively for the product.

Other precautions:

Warn personnel of the dangers of the product.

Follow the protective measures given in section 8.

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCIDIC CD19

Page 5 of 8

Packaging:
Stainless Steel.
PE.
Paper and PE.
Glass.
Passivated Aluminum.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values:

Authorized limit Values: Particulates not otherwise classified (PNOC)
TLV deg ACGIH-USA (2002): Inhalable 10 mg/m³ TWA Respirable 3 mg/m³ TWA
OSHA PEL: Inhalable 15 mg/m³ TWA Respirable 5 mg/m³ TWA
SAEL (Vendor Acceptable Exposure Limit)

Sodium Carbonate Peroxyhydrate
SAEL (Vendor Acceptable Exposure Limit): 5 mg/m³ TWA

ACGIH and TLV are registered trademarks of the American Conference of Governmental Industrial Hygienists.
SAEL is Vendor Acceptable Exposure Limit, Time-Weighted Average for 8-hour workdays.
No Specific TLV-STEL (Short Term Exposure Level) has been set. Excursions in exposure level may exceed 3 times the TLV-TWA for no more than a total of 30 minutes during a workday and under no circumstances should they exceed 5 times the TLV-TWA.

Occupational Exposure Controls:

Ventilation: Provide ventilation in work areas to keep exposure below applicable limits. See Section 8

Respiratory protection: For many conditions, no respiratory protection may be needed; however in dusty or unknown atmospheres or when exposures exceed limit values, use NIOSH-approved dust respirator.

Skin protection: For brief contact, few precautions other than clean body-covering clothing should be needed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild.
Physical State: Solid.
Appearance: Granular solid.

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCIDIC CD19

Page 6 of 8

pH : 10.4-10.6 (1 % solution).
Bulk Density: 1-1.2 g/cm³
Boiling Point: N/E
Freezing/Melting Point: N/E
Vapor Pressure: N/E
Vapor Density: N/E
Solubility in Water: 140 g/L @ 24 deg C (75 deg F).

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under certain conditions of use with slow gas release.

Conditions to avoid:
Heat/Sources of heat.
Moisture.

Materials and substances to avoid:
Water.
Acids.
Bases.
Salts of heavy metals.
Reducing agents.
Organic materials.
Flammable substances.

Hazardous decomposition products: Oxygen; Decomposition releases steam and heat.

Hazardous Polymerization: Will not occur.

Other information: None.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Inhalation: LC50, 1 hour, rat, >4580 mg/m³.
Oral: LD50, rat (combined sexes), 1034 mg/kg.
Dermal: LD50 lo, rabbit, >2000 mg/kg.

Irritation:
Rabbit, Severe damage (eyes).
Rabbit, Slight irritant (skin).

Sensitization: No sensitization was noted when administered as a 75% w/v induction and as a 25% w/v mixture at challenge.

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCID **CD19**

Page 7 of 8

Comments: Toxic effect linked with irritating properties.

Chronic toxicity: No data.

Carcinogenic Designation: None.

SECTION 12. ECOLOGICAL INFORMATION

Acute ecotoxicity:

Fish, Pimephales promelas; LC50, 70.7 mg/L.

Fish, Pimephales promelas; NOEC, 96 hours, 1 mg/L.

Crustaceans, Daphnia pulex; EC50, 4.9 mg/L.

Crustaceans, Daphnia pulex; NOEC, 48 hours, 1 mg/L.

Chronic ecotoxicity: No data.

Mobility:

Air - Not applicable.

Water- Considerable solubility and mobility.

Soil/sediments - Non-significant adsorption.

Degradation

Abiotic:

Air- Not applicable.

Water- significant hydrolysis.

Degradation products: sodium carbonate, carbon dioxide, bicarbonate, carbonate, hydrogen peroxide.

Soil- hydrolysis.

Biotic: No data.

Potential for bioaccumulation: Result: non-bioaccumulable.

Other adverse effects /Comments: Toxic for aquatic organisms.

Nevertheless, hazard for the environment is limited due to product properties:

No bioaccumulation.

Abiotic degradation.

Low toxicity of degradation products.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with

MATERIAL SAFETY DATA SHEET
PRODUCT NAME: PET ZONE WITH HYDROCIDIC CD19

Page 8 of 8

federal, state and local regulations. **All disposal must be in accordance with all federal, state and local regulations.**

SECTION 14. TRANSPORT INFORMATION

Ground Transportation: Ship ORM-D in 8 lb. containers or smaller.

Air Transportation: Do not ship by air.

Maritime Transportation: Oxidizing Solids, N.O.S., Sodium Percarbonate Hazard Class 5.1 U.N. Packing Group II

SECTION 15. REGULATORY INFORMATION

Sodium Carbonate Peroxyhydrate (CAS # 15630-89-4) NJHS

All components are listed on TSCA

NJHS = New Jersey Right-to-Know Hazardous Substances

SECTION 16. OTHER INFORMATION

This product has no established regulatory information. All regulatory information given is based on individual components of the mixture by component number. While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy. BRIDGEPOINT SYSTEMS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

N/A = Not applicable N/D = Not determined N/E = Not established