Section 1. Product and Company Identification

Product Name: BIG DOG POWDER DATE: 12/10/2014

Supplier: NA Chemical Inc. REV. 01

1000 Highland Ave. Cambridge, Ohio 43725

In Case of emergency Chemtrec 800-424-9300
Product type Cleaning powder

Section 2. Composition / Information on Ingredients

Name	CAS Number	% by weight	ppm
Sodium Metasilicate	6834-92-0	16 to 18	
Sodium Hydroxide	1310-73-2	20 to 25	

There are no aditional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classfied as hazardous to health or the environment and hence do not require reporting in this section.

Section 3. Hazardous Identification

Emergency Overview: Prolonged and or repeated contact may cause mild irritation or redness to eyes and skin.

Physical state Powder Color White

Precautionary measures
Use personnal protective gear and appropriate handeling measures to control/reduce hazards

associated with contact with eyes, skin, ingestion, inhalation and environmental release.

Routes of entry Eyes, skin, inhalation, ingestion

Potential acute health effects

Inhalation May be irritating to the mucous membranes to the nose, throat or lungs. Choking, coughing or

headache may occur.

Ingestion May cause irritation to the mouth, throat and gastrointestinal system. Large amounts may cause

vomiting and diarrhea.

Skin May cause redness or swelling. Prolonged or repeated contact may cause dermatitis.

Eyes Severe eye irritant. Liquid and mists may damage the eyes causing corneal injury.

See toxicololical information sect 11

Section 4. First Aid Measures

First Aid for Inhalation:

First Aid for Eye: Check for and remove any contact lens. Immediately flush eyes with plenty of water for at least 15

minutes, occationally lifting the upper and lower eyelids. Get medical attention immediately.

First Aid for Skin: In case of contact, immediately flush skin with plenty of water fo rat least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes throughly before reuse. Move exposed person to fresh air. If not breathing, is irregular or if respiratory arrests occurs, provide

artifical respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt or

waistband. Get medical attention immediately.

First Aid for Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire Fighting Measures

Flash point (°F) N/A

Extingushing media Use water spray, dry chemical or CO₂

Special exposure hazards N/A

Decomposition products Alkaline vapors in a fire.

Special Protective equipment for Self contained respiratory protection

fire fighters

Section 6. Accidental Release Measures

Personal precautions No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

areas. Keep unnecesary and unprocected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator

when ventilation is inadequate. Put on appropriate personal equipment (see section 8).

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform

the relevent authorities of the product has caused environmental pollution (sewer, waterways, soil, or air).

Methods for cleaning up

Small Spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry

into sewers, water courses, basements or confined areas. Wash spillage into an effluent treatment plant or proceed as follows. Contain an collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or idatomaceous earth and place in container for disposal contractor.

Contaminated absorbent material may pose the same hazard as the spilled product. Note see Section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and Storage

Handling & Storing: Put appropriate personal protective equipment (see section 8). Eating, drinking and smoking shold be

prohibited in areas where material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapor or mist. Do not swollow. Avoid contact with eyes, skin, and cothing. Use only with adequate ventilation. Wear appropriate respirator when ventitation is inadequate. Keep in the original container or approved alternative made from a compatible material,

kept tightly closed when not in use. For Industrial use only.

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Store in accordance with local regulations. Store in orginial container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened

must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropiate containment to avoid environmental contamination.

Section 8. Exposure Controls / Personal Protective Equipment

Ingredient Exposure limits

ACGIH TLV (United States)

Sodium Metasilicate TWA 1 mg/m³

Sodium Hydroxide TWA: 2 mg/m³

Recommended monitoring procedures

Storage

If this prorduct contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of

hazardous substances will also be required.

Section 8. Exposure Controls / Personal Protective Equipment (cont'd)

Engineering measures

Use only with adequate ventilation. Use process enclusures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face throughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminiated clothes before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

Chemical-resistant, imperiyous gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assesment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their proctective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eyes

this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible chemical spalsh goggles should be worn (unless the assessment indicates a higher degreee of protection).

Safety eyewear complying with an approved standard should be use when a risk assessment indicates

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks invovled and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions form ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

Section 9. Physical and Chemical Properties

Physcial state Powder

Flash point (°F) N/A

Apearance @ 70°F White powder

Boiling point (°F) N/A **Specific Gravity** 2.1 Vapor density N/A **Evaporation rate** N/A рH N/A

Solubility in water Soluable

Section 10. Stability and Reactivity

Chemical Stability: Stable

Conditions to avoid This product may react with strong oxidizing agents.

Incompatible materials Hazardous decomposition Avoid mixing with strong acids.

products

None Known

Hazardous Polymerization Under normal conditons of stoage and use, hazardous reactions will not occur.

Section 11. Toxicological Information

Acute	40V	ioit.	
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Product/ingredient name	Result	Species	Dose	Exposure
No data provided at this time				

Chronic toxicity

Conclusion/Summary

No data available at this time Carcinogenicity

Conclusion/Summary

No data available at this time

Mutagenicity

Conclusion/Summary No data available at this time

Teratogenicity

Conclusion/Summary No data available at this time Reproductive toxicity

Conclusion/Summary No data available at this time

Section 12. Ecological Information

Ecotoxicity No data available at this time

Aquatic exotoxicity

Conclusion/Summary No data available at this time

Persistence/degradablity

Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species

Conclusion/Summary indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others

to end up as insoluble compounds similar to constituents of natural soils.

Section 13. Disposable Considerations

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. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be dosposed of untreated to the sewer unless fully compliant with the requirements of all authorities with iurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and it container must be disposed of in a safe way. Care should be take when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff

The generation of waste should be avoided or minimized wherever possible. Disposal of this product,

Water disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8 Exposure Control/Personal Protection for additional handling information and protection of employees.

and contact with soil, waterways, drains and sewers.

Section 14. Transportation Information

Regultory Information	UN Number	Proper shipping name	Classes	PG*	II ahel	Additional Information
DOT Classification	UN 1823	Sodium Hydroxide	8	II	Caustic	N/A
IMDG Class						
IATA-DGR Class						

PG* Packing Group

Section 15. Regulatory Information

CAS# 1310-73-2 is listed on the TSCA inventory.

SARA Codes:CAS# 1310-73-2: Immediate, reactive.

CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA Section 311

Section 16. Other Information

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