SAFETY DATA SHEETS

This SDS packet was issued with item:

078673378

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078576960 078576978 078601250 078601276 078601284

MSDS Material Safety Data

SODA LIME
Product Code J553, J553B, J553C
Effective Date: March 06 2012

Jorgensen Laboratories, Inc.
Veterinary Specialties
1450 N. Van Buren
Loveland, CO. 80538

24 Hour Emergency Telephone:
INFOTRAC: (800)535-5053

All non-emergency questions may be directed to customer service @ (970)669-2500 or fax (970)663-5042

HAZARDOUS IDENTIFICATION

Chemical Family: Alkaline Carbon Dioxide Absorbent
Formulas: Ca (OH)2, KOH, NaOH

Hazardous Ingredients/Components:	Content by weight	CAS#	Maximum Exposure value 8-hour time weighted average OSHA PEL
Calcium Hydroxide	>73%	1305-62-0	5mg/cubic meter
Potassium Hydroxide	0-5%	1310-58-3	2mg/cubic meter (ceiling)
Sodium Hydroxide	<4%	1310-73-2	2 mg/cubic meter (ceiling)
Other ingredients:			
Modifiers (includes pH indicator)	<1%		
Water	<19%		

EMERGENCY OVERVIEW

SYSTEM	SYMPTOMS OF EXPOSURE	FIRST AID PROCEDURES
INHALATION	Dust can cause irritation and injury to the Respiratory system	Remove to fresh air
SKIN	Irritation upon direct contact	Wash affected area with water; if irritation occurs and persists, get medical attention. Remove contaminated clothing
EYES	Severe irritation upon contact	Immediately flush area with water for AT LEAST 15 minutes. Get medical attention
INGESTION	Harmful if swallowed	Dilute with weak vinegar solution or a 5% solution of ammonium chloride if these are available. If not dilute with large quantities of water. Do not induce vomiting. Get medical attention.

POTENTIAL HEALTH EFFECTS

SEE EMERGENCY OVERVIEW

OTHER:

Sensitization: none known
Carcinogenicity: none known

FIRST AID MEASURES

SEE EMERGENCY OVERVIEW

FIRE FIGHTING MEASURES

FIRE:
Non flammable
EXPLOSION:
Non explosive

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ACCIDENTAL RELEASE MEASURES

Avoid inhalation and direct contact
For small spills: Scoop up and place in closed fiberboard or lined metal containers. Rinse area with water. Wash area with soapy water and rinse.
For large spills: Scrape or shovel into containers as above.
Waste disposal: Dispose of all product wastes and water rinses in accordance with current local, state, and Federal regulations. **SEE ALSO SECTION ON DISPOSAL CONSIDERATIONS**

HANDLING AND STORAGE

Avoid breathing dust. Avoid skin and eye contact. Keep from freezing. Do not use any materials exposed to below-freezing temperatures. Keep away from moisture.

PERSONAL PROTECTION/EXPOSURE CONTROLS

EYE: Safety glasses or goggles and face shield
GLOVES: Protective, loose-fitting, insulated
LOCAL EXHAUST: Recommended
VENTILATION: Avoid inhalation and direct contact. Use is a well-ventilated location
RESPIRATORY: Self-contained breathing apparatus where needed
OTHER: Avoid contact with water when using this product
Specific engineering controls to be used: none

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	**White granules**
ODOR:	**Odorless**
SOLUBILITY in water:	**Slight**
SPECIFIC GRAVITY:	**approximately 2**
PH:	**10.5 – 12.5**
% VOLATILES by VOLUME:	**<19**
VAPOR PRESSURE / DENSITY:	**not applicable / not applicable**
EVAPORATION RATE:	not applicable
BOILING POINT / FREEZING POINT:	not applicable / not applicable
DENSITY:	not applicable
COEFFICIENT OF WATER / OIL:	not applicable

.

STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITIES: Will react (be neutralized) with acids. May react with chloroform slightly, producing sodium formate, carbon monoxide, and phosgene. May react with trichloroethylene producing dichloracetylene, carbon monoxide, and phosgene.

CONDITIONS OF REACTIVITY/AVOID: Presence of acids, chloroform, trichloroethylene

CONDITIONS TO AVOID: Keep all Soda Lime that has been <u>USED</u> with highly flammable anesthetics away from heat, sparks, open flames – as residual amounts of these materials will be present.

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TOXICOLOGICAL/ECOLOGICAL INFORMATION

TOXICOLOGICAL DATA/ENVIRONMENTAL TOXICITY: No data available for this product.

DISPOSAL INFORMATION

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when classifying waste and its disposal. According to EPA (40 CFR §261.3), waste of this product is not defined as hazardous. Always dispose of waste of this product in accordance with all applicable regulations. State and local regulations may differ from federal. Check before disposing of this and any waste product.

OTHER INFORMATION

TRANSPORT (Land, DOT, IATA):
This product is not regulated because it contains less than 4% sodium hydroxide (NaOH).

PRODUCT USE:
C02 absorbent

Prepared and verified 03/19/2012

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SDS Safety Data Sheet

JorVet™

Soda Lime
Carbon Dioxide Absorbent Granules

Product Code J0553, J0553B, J0553C
Submission Date: 06/03/15

Jorgensen Laboratories, Inc.
Veterinary Specialties
1450 N. Van Buren
Loveland, CO. 80538

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2	HAZARDS IDENTIFICATION				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS) – see section 11		2.1.2	Classification according to EC – see section 11	
	Skin irrit 2	H315		Xi	R36/38
	Eye irrit 2	H319			
2.1.3	Labelling in accordance with EC Directives 67/548/EEC and 1999/45/EC (CHIP 4)				
2.2	Labelling Elements				
2.2.1	Physicochemical	According to experience, the product is considered to have no adverse physicochemical properties if handled in the correct manner.			
	Health	Irritating to eyes and skin			
	Environmental	According to experience, the product is considered to have no adverse affect on the environment if handled in the correct manner.			
2.2.2	Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS				
	Hazard Statements				
	H315	Causes skin irritation			
	H319	Causes serious eye irritation			
	Precautionary statements				
	P280	Wear protective gloves/protective clothing/ eye protection/ face protection			
	P314	Seek medical advice/attentionif you feel unwell			

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	P302/352	If on skin: wash with plenty of soap and water
	P305/351/338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
	P332/313	If skin irritation occurs seek medical advice/attention.
2.3	Other Hazards	
	None known	

3	COMPOSITION / INFORMATION ON INGREDIENTS				
	Chemical characterisation	Solid bases plus additives – see section 16 The CHIP/CLP classifications required in this section are related to that of the product supplied. To comply with the legislation the classification of the relevant ingredients of the product, as if they were present at 100%, must be outlined. Where ingredients are present in the product at very low concentrations the level of risk to the user is reduced, hence the reason that the classifications for the individual components and the product are different			
	Chemical Name	CAS-No	EINECS/ELINCS	Classification	Concentration
	Calcium Hydroxide	1305-62-0	215-137-3	CHIP: Xi: R38. 41 CLP: Skin Irrit. 2 H315 Eye Damage 1 H318 WEL assigned	>75%

4	FIRST AID MEASURES	
4.1	Description of measures	
	Inhalation	Remove casualty to fresh air and provide warmth and rest
	Skin contact	Clean areas of skin affected immediately with soap and plenty of water. If necessary, seek medical advice
	Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides; consult an eye specialist/ophthalmologist
	Ingestion	Unlikely route of exposure. But if product is swallowed, do not induce vomiting. Drink plenty of water and, if necessary, seek medical advice
4.2	Most important effects/symptoms	None known
4.3	Immediate/special treatment	Treatment as described above

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5	FIRE FIGHTING MEASURES	
5.1	Extinguishing media	To suit local surroundings (e.g. chemical powder, carbon dioxide, dry sand, water)
5.2	Special hazards	None known
5.3	Advice for fire fighters	Self-contained breathing apparatus may be required

6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions	Adhere to personal protective measures
6.2	Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once
6.3	Methods and materials for cleaning up	In the event of spillage, take up mechanically (e.g. sweep or vacuum up) into tightly closed containers. Adhere to personal protective measures. Flush any remainder with plenty of water. Label container and dispose of as prescribed
6.4	Reference to other sections	See section 8 for personal protective equipment

7	HANDLING AND STORAGE	
7.1	Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Avoid the raising and deposition of dust
7.2	Conditions for safe storage	Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool (0-35°C) and dry, avoiding direct sunlight
7.3	Specific end use(s)	As an absorbing agent

8	EXPOSURE CONRTOLS / PRESONAL PROTECTION				
8.1	Workplace Exposure Limits (WELs) have been assigned by the HSE (EH40/2005)				
	LTEL (8 hour TWA	ppm	5	mg/m3	Data for Calcium Hydroxide
8.2	Exposure controls				
	Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation)			
	Personal protection	Observe normal standards for handling chemicals Wash hands before breaks and after work Avoid inhalation of dust if raised Wear personal protective equipment appropriate to the task (see below)			
	Eye protection	Safety goggles if risk of eye contamination			

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	Skin protection	Suitable gloves (consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
	Respiratory protection	Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient
	Other protection	Protective overalls

9	PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Basic physcial and chemical properties			
	Physical form	Solid	Colour	White or coloured
	Odour	Odourless	pH	12-14
	Boiling pt/range	Not determined	Melting pt/range	Not determined
	Flash point	Not applicable	Relative density	~0.9g/cm3
	Water solubility	Slight		
9.2	Other information	None		

10	STABILITY AND REACTIVITY	
10.1	Reactivity	Heat is generated if exposed to acids
10.2	Chemical stability	Stable under normal conditions of handling
10.3	Hazardous reactions	Hazardous polymerisation will not occur
10.4	Conditions to avoid	Contact with air – formation of calcium and sodium carbonate
10.5	Incompatible material	Chloroform, trichloroethylene
10.6	Hazardous decomposition products	None

11	TOXICOLOGICAL INFORMATION			
11.1	Information on toxicological effects			
		LD50 rat (oral)	>7000 mg/kg	Data for calcium hydroxide
	Dermal compatibility	No data available		
	Mucous membrane	No data available		
	Further information	Although using the 'conventional method' under CHIP or 'specific concentration' limits under CLP, the product classification would be 'corrosive', using EU official in vitro tests on the whole product, it was found to be irritating to eyes and skin, not corrosive		

12	ECOLOGICAL INFORMATION				
12.1	Toxicity	LC50	Aquatic	mg/l	No data available

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			organisms		
12.2	Degradability	Not determined	12.3	Bioaccumulative potential	Not determined
12.4	Mobility in soil	Not determined	12.5	PBT/vPvB assessment	Not applicable
12.6	Other adverse effects	None known – converts to naturally occurring minerals			

13	DISPOSAL CONSIDERATIONS	
	Advice on disposal	If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005
	Contaminated packaging	Treat empty containers in the same way as the product. If possible wash out thoroughly and recycle

14	TRANSPORT INFORMATION				
14.1	United Nations number (ADR, IMDG, IATA)	Not classified	14.2	Proper shipping name (ADR, IMDG, IATA)	Not classified
14.3	Transport class(s) (ADR, IMDG, IATA)	Not classified	14.4	Packing group (ADR, IMDG, IATA)	Not classified
14.5	Environmental hazards (ADR, IMDG, IATA)	The product should not be marked as a marine pollutant	14.6	Special procedures (ADR, IMDG, IATA)	Not applicable
14.7	Transport in bulk	Not applicable			

15	REGULATORY INFORMATION	
15.1	Safety, health and environmental regulations	The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 4) and EC Regulation 1272/2008 (CLP). Other regulatory information and provisions are not applicable for this product
15.2	Chemical safety assessment	Not applicable

16	OTHER INFORMATION

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	Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)		
		Comply with COSHH Regulations		
	Hazard statements and Risk phrases referred to in sections 2/3			
	H314	Causes severe skin burns and eye damage	R35	Causes severe burns
	H315	Causes skin irritation	R36/38	Irritating to eyes and skin
	H318	Causes serious eye damage	R41	Risk of serious damage to eyes
	H319	Causes serious eye irritation		
	Sources of data	Other suppliers' safety data sheets, Annex VI of the CPL Regulation (EC) No 1272/2008, EH40 (2005) OECD 431, 2004 Testing of chemicals, in vitro skin corrosion, human skin test model		
	Date of issue	11/12/2012		
	This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific problems			

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