



Creating Value Through Innovative Solution

Material Safety Data Sheet

Purshade

MSDS Number (PS) Date: 6/18/2012

Section 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

- 1.1 Product Name** Purshade
 Chemical Family calcium carbonate suspension, inorganic solution
 Synonyms calcium carbonate, limestone
 Formula NA Blend
- 1.2 Manufacturer** Tessenderlo Kerley Inc.
 2255 N. 44th Street, Suite 300
 Phoenix, Arizona 85008-3279
 Information (602) 889-8300
- 1.3 Emergency Contact** (866) 374-1975 (Tessenderlo Kerley)
(800) 424-9300 (CHEMTREC)

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

2.1 Chemical Ingredients (% by wt.)

Component	CAS #:	%
Calcium carbonate	1317-65-3	62.5
Crystalline silica, quartz (impurity)	14808-60-7	0.06 – 1.25
Proprietary Ingredients		36.250

(See Section 8 for exposure guidelines)

Section 3: HAZARDS IDENTIFICATION

NFPA: **Health - 0** **Flammability - 0** **Reactivity - 0**

EMERGENCY OVERVIEW

Product is a moderate skin irritant.
 Inhalation for prolonged and continuous periods may irritate upper respiratory system.
 Product contains silica a respiratory carcinogen.

Section	3:	HAZARDS IDENTIFICATION Cont.
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3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes should be avoided. Calcium carbonate is a minimal eye irritant

SKIN CONTACT: Contact with product may dry skin and mucous membranes.

SKIN ABSORPTION: Absorption is unlikely to occur.

INGESTION: Ingestion of product may upset the gastrointestinal tract.

INHALATION: Inhalation of product dust in excessive quantities for prolonged or continuous period of time may aggravate existing asthmatic or respiratory conditions..

CHRONIC EFFECTS/CARCINOGENICITY:

Crystalline silica

NTP:	Listed as a known human carcinogen
IARC:	Carcinogenic to humans, Group 1.
OSHA:	Listed as Hazardous Respirable dust.
ACGIH	Suspected human carcinogen
NIOS:	Possible human carcinogen.

. See Section 11, Toxicological Information

Section	4:	FIRST AID MEASURES
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4.1 EYES: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Do not attempt to neutralize with chemical agents or use oils or ointments. Obtain medical attention if irritation persists..

4.2 SKIN: Immediately flush with large quantities of water for 15 minutes. Remove contaminated clothing under a safety shower. Do not neutralize with chemical agents. Obtain medical attention if irritation occurs.

4.3 INGESTION: DO NOT INDUCE VOMITING. Give 1 or 2 glasses of water. If vomiting does occur, repeat fluid administration. If unconscious or convulsing, do not give fluids. Obtain immediate medical attention.

4.4 INHALATION: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

Section	5:	FIRE FIGHTING MEASURES
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5.1 FLAMMABLE PROPERTIES

FLASH POINT: NA **METHOD USED:** NA

5.2 FLAMMABLE LIMITS NA

5.3 EXTINGUISHING MEDIA: As appropriate for combustibles involved in fire.

5.4 FIRE & EXPLOSIVE HAZARDS: None

Keep containers/storage vessels in fire area cooled with water spray.

5.5 FIRE FIGHTING EQUIPMENT: Firefighters should wear protective clothing and use equipment that is suitable for the materials involved in the fire..

Section	6:	ACCIDENTAL RELEASE MEASURES
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6.1 Small releases: Confine and absorb small releases on earth, sand, or other inert absorbent. Dispose of absorbed material as non-hazardous chemical waste.

6.2 Large releases: . Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbent to prevent runoff into surface waterways (potential aquatic toxicity). Recover as much of the released solution as possible. Treat remaining material as a small release. Dispose of absorbed material as non-hazardous chemical waste.

Section	7:	HANDLING and STORAGE
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7.1 Handling: Avoid contact with eyes and skin. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the eyes and skin.

7.2 Storage: Store in cool, dry, well ventilated areas.

Section	8:	EXPOSURE CONTROLS, PERSONAL PROTECTION
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8.1 RESPIRATORY PROTECTION: Wear common dust mask if considerable dust present

8.2 SKIN PROTECTION: Wear light weight protective clothing (Tyvek) and gloves.

8.3 EYE PROTECTION: Wear safety glasses with side shields. Wear protective goggles if considerable dust present.

8.4 EXPOSURE GUIDELINES:

	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Calcium carbonate	5 mg/m ³ Respirable Fraction 15 mg/m ³ Total dust	10 mg/m ³ Total Dust
Crystalline Silica	10 mg/m ³ Respirable fraction 30 mg/m ³ Total Dust	0.025 mg/m ³ Respirable fraction

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product dust/vapors.

Section	9:	PHYSICAL and CHEMICAL PROPERTIES.
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9.1 APPEARANCE:	White liquid suspension
9.2 ODOR:	earth like
9.2.1 ODOR THRESHOLD:	Nor applicable
9.3 BOILING POINT:	Not Determined

9.4	VAPOR PRESSURE:	Not Determined
9.5	VAPOR DENSITY:	Not Determined
9.6	SOLUBILITY IN WATER:	1.3 mg/L (20°C)
9.7	SPECIFIC GRAVITY:	1.67 g/mL (14 lbs/gal)
9.8	FREEZING POINT:	Not Determined
9.9	pH:	8.4 – 10.2
9.10	VOLATILE:	Not determined
9.11	VISCOSITY:	Not determined

Section	10:	STABILITY and REACTIVITY
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10.1 STABILITY: This is a stable material, however if separation occurs, suspension can be mixed,

10.2 HAZARDOUS POLYMERIZATION: Will not occur

10.3 HAZARDOUS DECOMPOSITION PRODUCTS: None

10.4 INCOMPATIBILITY: Do not mix with materials that will lower the pH of suspension (acids). Do not freeze. Silica is incompatible with HF solutions. (SEE Section 7.2, Storage)

Section	11:	TOXICOLOGICAL INFORMATION
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11.1 ORAL: Oral-Rat LD₅₀: 6,450 mg/kg (Calcium carbonate)
Oral Rat LD₅₀: 500 mg/kg bw (quartz, 10-200 um)

11.2 DERMAL: Draize test, Rabbit, Skin: LD₅₀ 500 mg/24 hr Moderate (calcium carbonate)
Draize test, Rabbit, eye: LD₅₀ : 750 ug/24 hr/Severe (calcium carbonate)

11.3 INHALATION: Data not available

11.4 CHRONIC/CARCINOGENICITY: See Section 3.1.

11.5 TERATOLOGY: Data not available

11.6 REPRODUCTION: Data not available

11.7 MUTAGENICITY: Data not available

Section	12:	ECOLOGICAL INFORMATION
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Mobility – inert material. Persistence/degradability – Non-degradable. Bio-accumulative potential – None.

Section	13:	DISPOSAL CONSIDERATIONS
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If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under RCRA, in 40 CFR 261. Consult state and local regulations for different or more restrictive disposal regulations.

Section	14:	TRANSPORT INFORMATION
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14.1 DOT Shipping Name: Calcium carbonate suspension (non-regulated)

14.2 DOT Hazard Class:	NA
14.3 UN/NA Number:	NA
14.4 Packing Group:	NA
14.5 DOT Placard:	NA
14.6 DOT Label(s):	NA

Section	14:	TRANSPORT INFORMATION, Cont.
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14.7 IMO Shipping Name:	NA
14.8 RQ (Reportable Quantity):	NA
14.9 RR STCC Number:	3265956
14.10 DOT/IMO Mark	NA

Section	15:	REGULATORY INFORMATION
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15.1 OSHA:	This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
15.2 SARA TITLE III:	a.	EHS (Extremely Hazardous Substance) List: No
	b.	Section 311/312, (Tier I,II) Categories: Immediate (acute) Yes Fire No Sudden release No Reactivity No Delayed (chronic) No
	c.	Section 313 (Toxic Release Reporting-Form R): No
	d.	TPQ (Threshold Planning Quantity): NA
15.3 CERCLA/SUPERFUND:	RQ (Reportable Quantity)	NA
15.4 TSCA (Toxic Substance Control Act) Inventory List:		Yes
15.5 RCRA (Resource Conservation and Recovery Act) Status:		NA
15.6 WHMIS (Canada) Hazard Classification:		D-2A, Carcinogenicity
	"This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR."	
15.7 DOT Hazardous Material: (See Section 14)		No
15.8 CAA Hazardous Air Pollutant (HAP)		No
15.9 FIFRA Registered pesticide		No
15.10 Prop 65 (CA)		Yes (Silica) <i>Purshade</i>

Section	16: OTHER INFORMATION
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REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993, by Technical Services-Tessengerlo Kerley, Inc.

Revised Section 3 and 4 for eye irritation, 3/22/2012.

Revised Sections 3, 3.1, 8, 9, 10, 11, and 15 to comply with Canadian CPR.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.
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