Polyester G25 DLC®-A

1: Identification

Product identifier: Other means of identification: Supplier:

Recommended use:
Restrictions on use:
Emergency phone number:

Polyester G25 DLC®-A Sebacate polyester on silicon dioxide NATROCHEM, Inc. P.O. Box 1205 Savannah, GA 31402-1205 912-236-4464 Rubber plasticizer Not applicable. CHEMTREC (USA) 800-424-9300

CHEMTREC (Int'l)

800-424-9300 202-483-7616

2: Hazard(s) identification

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OSHA/HCS status:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
GHS classification:	Not classified.
GHS label elements	
Signal word:	WARNING
Symbol(s):	
Symbol(3).	
Hazard statements:	
Hazards not otherwise	May form combustible dust concentrations in the air.
classified:	
Precautionary statements:	
Prevention:	Avoid breathing dust/fume/ gas/mist/vapours/spray.
	Do not get in eyes, on skin, or on clothing.
	Do not eat, drink or smoke when using this product.
	Avoid release to the environment.
Response:	IF ON SKIN (or hair): Wash with plenty of soap and water.
	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses if present and easy to do – continue rinsing.
	IF exposed or concerned: Call a POISON CENTER/ doctor if you feel
	ir exposed of concerned. Call a POISON CENTERY doctor if you reef

	unwell. In case of fire: Use dry chemical, CO ₂ , water spray (fog) to extinguish.
Storage:	Store in a dry place. Store in a closed container.
Disposal:	Dispose of contents/container in accordance with applicable
	regulations.
Supplemental information:	Not applicable.

3: Composition

Substance/mixture:

Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
Proprietary		Proprietary	70-74
Silica, amorphous, precipitated,		112926-00-8	26-30
and gel			

Contains no detectable crystalline silica (detection limit <0.01% by weight) Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4: First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have SDS information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation:	Remove to fresh air. Keep person warm and at rest. If not breathing,
	if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed.

Potential acute health effects

Eye contact:	No significant irritation expected other than possible mechanical irritation.
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.
Skin contact: Ingestion:	Prolonged or repeated contact may dry skin and cause irritation. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following:
	Irritation
	Redness
Inhalation:	Adverse symptoms may include the following:
	Coughing
	Respiratory tract irritation
Skin contact:	Adverse symptoms may include the following:
	Dryness
Ingestion:	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:Treat symptomatically. Contact poison treatment specialist
immediately if large quantities have been ingested or inhaled.Specific treatments:No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (fog).
Unsuitable extinguishing	Do not use a solid water stream as it may scatter and spread fire.
media:	
Specific hazards arising from	Product forms a slippery surface when combined with water.
the chemical:	
Hazardous thermal	In the event of a fire, hazardous decomposition products may
decomposition products:	include:
	Carbon monoxide
	Carbon dioxide
	Other unidentified organic compounds
Special protective actions for	No action shall be taken involving any personal risk or without
firefighters:	proper training.
Special protective equipment	Firefighters and others who may be exposed to products of
for firefighters:	combustion should wear full firefighting turn out gear (full bunker gear) and self-contained breathing apparatus (SCBA) operated in pressure-demand mode (MSHA/NIOSH approved or equivalent).
firefighters: Special protective equipment	proper training. Firefighters and others who may be exposed to products of combustion should wear full firefighting turn out gear (full bunker gear) and self-contained breathing apparatus (SCBA) operated in

6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel:	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Product forms slippery surface when combined with water. No action shall be taken
For emergency responders:	involving any personal risk or without suitable training. If specialized clothing is required to deal with the spillage, take note
	of any information in Section 8 on suitable and unsuitable materials.
	See also the information immediately above in "For non-emergency personnel".
Environmental precautions:	Avoid release to sewers, waterways, soil, or air. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up

Avoid generating dust. Vacuum or sweep up material and place in a
designated, labeled waste container.
Avoid generating dust. Vacuum or sweep up material and place in a
designated, labeled waste container.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7: Handling and storage

Precautions for safe handling

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Protective measures:	Put on appropriate personal protective equipment (see Section 8).
Advice on general	Eating, drinking, and smoking should be prohibited in areas where
occupational hygiene:	this 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. When transferring material into flammable solvents,
	use proper grounding to avoid electrical sparks. Avoid alteration of
	product properties before use. Calcining (which may result in
	crystalline silica formation) or mixing with additives may alter
	toxicological properties.
	See also Section 8 for additional information on hygiene measures.
Conditions for safe storage,	Store in accordance with local regulations. Store in original container
including any incompatibilities:	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.
	Do not store in unlabeled containers.

8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.	
Recommended monitoring procedures:	If this product 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.
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:	Wash hands, forearms, and face thoroughly 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 contaminated clothing before reusing. Ensure that eyewash stations and safety
	showers are close to the workstation location.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the
	assessment indicates a higher degree of protection: splash goggles.
Skin protection	
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When handling hot material, wear heat-resistant gloves that are able to
	withstand the temperature of molten product.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

9: Physical and chemical properties

<u>Appearance</u>	
Physical state:	Powder, solid, or granular solid.
Color:	White to off-white.
Odor:	Slight ester odor.
Odor threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not available.
Boiling point and range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability:	Not available.
Flammability or explosive	Not available.
limits:	
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	Not available.
Solubility:	Not available.
Partition coefficient: n-	Not available.
octanol/water:	
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not applicable.

10: Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: Possibility of hazardous reactions:	This product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	 High temperature (>800°C) treatment (calcining), which may result in crystalline silica formation. Avoid alteration of product properties before use. Calcining or mixing with additives may alter toxicological properties. Avoid generating dust. Refer to protective measures listed in Sections 7 and 8.
Incompatible materials:	Reactive or incompatible with the following materials: Acids Oxidizing materials

Hazardous decomposition products:	Strong alkalis In the event of a fire, hazardous decomposition products may include: Carbon monoxide Carbon dioxide
	Other unidentified organic compounds

11: Toxicological information

Information on toxicological effects Acute toxicity

Acute toxicity				
Conclusion/summary:	No know	n signif	icant effects or critical hazards.	
Irritation/corrosion				
Conclusion/summary				
Skin:	No know	n signif	icant effects or critical hazards.	
Eyes:	No know	n signif	icant effects or critical hazards.	
Respiratory:	No know	n signif	icant effects or critical hazards.	
Sensitization				
Conclusion/summary:				
Skin:		-	icant effects or critical hazards.	
Respiratory:	No know	n signif	icant effects or critical hazards.	
Mutagenicity:				
Conclusion/summary:	No know	n signif	icant effects or critical hazards.	
<u>Carcinogenicity</u>				
Conclusion/summary:	No know	n signif	icant effects or critical hazards.	
<u>Classification</u>				
Ingredient	OSHA	IARC	NTP	
Silica, amorphous,	-	3	-	
precipitated, and gel				
Carcinogen classification code:				
	, 2B, 3, 4 vn/Posconsk	alv antici	nated) to be a human carcinogon	
NTP: [Known/Reasonably anticipated] to be a human carcinogen OSHA: +				
Not listed/regu	lated: -			
Reproductive toxicity				
Conclusion/summary:	ion/summary: No known significant effects or critical hazards.			
Teratogenicity				
Conclusion/summary:	Conclusion/summary: No known significant effects or critical hazards.			
Specific target organ toxicity (single exposure)				
Not available.				
Specific target organ toxicity (r	epeated ex	xposur		
Not available.				
Target organs				
	upper respiratory tract, eyes.			
Aspiration hazard				
Not available.				
formation on the likely routes	ormation on the likely routes Routes of entry anticipated: oral, dermal, inhalation.			

of exposure:

Potential acute health effects

Eye contact:	No significant irritation expected other than possible mechanical irritation.
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.
Skin contact:	Prolonged or repeated contact may dry skin and cause irritation.
Ingestion:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics

g:
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Delayed and immediate effects and also chronic effects from short- and longterm exposure

ter in exposure		
Conclusion/summary:	An epidemiological study was conducted which incl precipitated silica workers who had been exposed a 8.6 years. Of these 165 workers, 44 had been expose of 18 years. No adverse effects were noted in comp examinations (including chest roentgenograms) of a Pulmonary function decrements were correlated of and age but not with the degree or duration of dus Laboratory studies have also been conducted in sm inhalation of levels of precipitated silica dust of up periods from six months to two years. Although pre was temporarily deposited in animals' lungs, most of anterial was cleared soon after the dust exposure of all studies performed by, or known to, PPG indicator order of pulmonary activity for synthetic precipitator should not work in dusty areas unless a physician a certifies their fitness to wear respiratory protection	an average time of sed for an average olete medical these workers. nly with smoking t exposures. all animals via to 126 mg/m ³ per ecipitated silica of the deposited ended. The results ated a very low ed silicas. PPG s or lung disease pproves and
Short-term exposure Potential immediate effects Potential delayed effects	No significant irritation expected other than possib irritation. Prolonged or repeated contact may dry skin and ca	
Long-term exposure Potential immediate	Repeated or prolonged inhalation of dust may lead	to chronic
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effects	respiratory irritation.
Potential delayed effects	Repeated or prolonged inhalation of dust may lead to chronic
	respiratory irritation.

Potential chronic health effects

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates Not available.

12: Ecological information

Toxicity

Ingredient	Result	Species	Exposure
Silica, amorphous,	NOEC > 1000 ppm	Daphnia – <i>daphnia magna</i>	24 hours
precipitated, and gel	Acute NOEC > 10000 ppm fresh	Fish	96 hours static
	water		
	Acute NOEC > 10000 ppm	Fish – <i>brachydanio rerio</i>	4 days static
Sebacate polyester	EC50 > 1000 mg/L	Daphnia – <i>daphnia magna</i>	48 hours
	NOEC 63 mg/L	Daphnia – <i>daphnia magna</i>	48 hours
	LC50 > 1000 mg/L	Fish – oncorhynchus mykiss	96 hours
	NOEC >= 1000 mg/L	Fish – oncorhynchus mykiss	96 hours

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous,	-	-	Not readily
precipitated, and gel			

Bioaccumulative potential

Ingredient	LogPow	BCF	Potential
Silica, amorphous,	-	0	low
precipitated, and gel			

Mobility in soil

Soil/water partition	
coefficient (K _{oc}):	
Other adverse effects:	

Not available.

No known significant effects or critical hazards.

13: Disposal considerations

Disposal methods:	The generation of waste should be avoided or minimized wherever possible. 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
Disposal should be in accordance	authority requirements.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Refer to Sections 6, 7, and 8 for additional information on accidental release measures, handling and storage, and exposure controls.

14: Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Additional information	-	-	-
Special precautions for user:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	Not available.		

15: Regulatory information

Inventory status

United States inventory (TSCA 8b):	All components are listed or exempted.
-	All components and listed on everyted
Australia inventory (AICS):	All components are listed or exempted.
Canada inventory (DSL):	All components are listed or exempted.
China inventory (IECSC):	All components are listed or exempted.
Europe inventory (REACH):	All components are listed or exempted.
Japan inventory (ENCS):	Please contact your supplier for information on the inventory status
	of this material.
Korea inventory (KECI):	All components are listed or exempted.
New Zealand inventory (NZIoC):	All components are listed or exempted.
Philippines inventory (PICCS):	All components are listed or exempted.

United States

US Federal regulations:

SARA Title III

Section 302 – Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or are regulated but present in negligible concentrations.

Section 311/312 – Hazard Categories:

The components in this product are either not SARA Section 311/312 regulated or are regulated but present in negligible concentrations.

Section 313 – Toxic Chemicals:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ)

The components of this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

US State regulations:

Ingredient	NJ RTK	MA RTK	PN RTK	CA Prop. 65
Silica, amorphous,	Listed	-	-	Not listed
precipitate, and gel				
Sebacate polyester	Not listed	Not listed	Not listed	Not listed

16: Other information

Hazardous Material Identification System (USA)

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

Caution: HMIS[®] ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS[®] ratings are not required on SDSs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS[®] ratings are to be used with a fully implemented HMIS[®] program. HMIS[®] is a registered mark of the Nation Paint & Coatings Association (NPCA). HMIS[®] materials may be purchased exclusively from J.J.Keller 800-327-6868.

* - chronic effects

The customer is responsible for determining the PPE code for this material.

Key to abbreviations:

ATE	Acute toxicity estimate
BCF	Bioconcentration factor
GHS	Globally Harmonized System of classification and labeling of chemicals
ΙΑΤΑ	International Air Transport Association
IBC	Intermediate bulk container

IMDG	International Maritime Dangerous Goods
LogPow	Logarithm of the octanol/water partition coefficient
MARPOL 73/78	International convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978. (MARPOL = marine pollution)
UN	United Nations

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