Safety Data Sheet

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
Bird Barrier Bond
Chemical Family
Silyl-terminated polymer.
Product Use
Adhesive, sealant

Manufacturer Information
SOUDAL ACCUMETRIC
350 Ring Road,
Elizabethtown, KY 42701
Phone: 1-877-873-8739
Emergency Phone #: +1 800 424 9300
E-mail: info@soudalusa.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1

GHS Label Elements

Symbol(s)

Signal Word
Warning

Hazard Statement(s)
Causes serious eye irritation
May cause allergic skin reaction

Precautionary Statement(s)

Prevention
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/face protection

Response
IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Specific treatment (see label)
If skin irritation or rash occurs: Get medical advice/attention
If eye irritation persists: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Storage
None needed according to classification criteria

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
471-34-1	Precipitated Calcium carbonate	50
NA1	Silyl Terminated Polyether	30-35
13463-67-7	Titanium dioxide(inbound in mixture)	1-5
NA2	Micronised Wax	1-5
64742-46-7	Distillates (petroleum), hydrotreated middle	1-5
2768-02-7	Vinyltrimethoxysilane	1-5
1760-24-3	Aminoethyl aminopropyl trimethoxy silane	<1
22673-19-4	Dibutyltin Diacetyldiacetonate	<1
26761-40-0	Diisodecyl phthalate	1

Section 4 - FIRST AID MEASURES

Description of Necessary Measures
IF exposed or concerned: Get medical advice/attention.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Skin
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
If a large amount is swallowed, get medical attention.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute
Causes serious eye irritation.

Delayed
May cause allergic skin reaction.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Use appropriate media for extinction.

Unsuitable Extinguishing Media
None known.

Special Hazards Arising from the Chemical
Negligible fire hazard.

Hazardous Combustion Products
Oxides of carbon, oxides of calcium, hydrogen chloride

Special Protective Equipment and Precautions for Firefighters
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures
Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Dike for later disposal.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary people away, isolate hazard area and deny entry. Wear personal protective clothing and equipment.

Methods and Materials for Containment and Cleaning Up
Collect spilled material using mechanical equipment. Do not spray on an open flame or other ignition sources. Stop leak if possible without personal risk. Only personnel trained for the hazards of this material should perform clean up and disposal.

Environmental Precautions
Toxic to aquatic life. Avoid release to the environment. Do not flush into sanitary sewer systems, drains or surface water.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes. Provide adequate ventilation. Wash thoroughly after handling. Use recommended personal protective equipment.

Conditions for Safe Storage, Including any Incompatibilities
None needed according to classification criteria
Keep away from incompatible materials.

Incompatible Materials
oxidizing materials, bases, combustible materials, strong acids, strong bases

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Precipitated Calcium carbonate	471-34-1
NIOSH:	10 mg/m3TWAtotal dust; 5 mg/m3TWArespirable dust
OSHA (US):	15 mg/m3TWAtotal dust; 5 mg/m3TWArespirable fraction (related to Limestone)
Mexico:	10 mg/m3TWA LMPE-PPT (related to Limestone)
	20 mg/m3STEL [LMPE-CT] (related to Limestone)
Titanium dioxide(inbound in mixture)	13463-67-7
ACGIH:	10 mg/m3 TWA
NIOSH:	5000 mg/m3IDLH
OSHA (US):	15 mg/m3TWAtotal dust

Mexico:	10 mg/m3TWA LMPE-PPT as Ti
	20 mg/m3STEL [LMPE-CT] as Ti
Dibutyltin Diacetyldiacetonate	22673-19-4
ACGIH:	0.1 mg/m3 TWA as Sn (related to Tin organic compounds)
	0.2 mg/m3 STEL as Sn (related to Tin organic compounds)
	Skin - potential significant contribution to overall exposure by the cutaneous route (related to Tin organic compounds)
NIOSH:	0.1 mg/m3TWA (except Cyhexatin) as Sn (related to Tin organic compounds)
	Potential for dermal absorption (related to Tin organic compounds)
	25 mg/m3IDLH (except Cyhexatin) as Sn (related to Tin organic compounds)
OSHA (US):	0.1 mg/m3TWA as Sn (related to Tin organic compounds)
Mexico:	0.1 mg/m3TWA LMPE-PPT as Sn (related to Tin organic compounds)
	0.2 mg/m3STEL [LMPE-CT] as Sn (related to Tin organic compounds)
	Skin - potential for cutaneous absorption (related to Tin organic compounds)

Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection
Wear appropriate chemical resistant clothing.

Respiratory Protection
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available	**Physical State**	Liquid
Odor	typical	**Color**	various colors
Odor Threshold	Not available	**pH**	Not available
Melting Point	Not available	**Boiling Point**	Not available
Freezing point	Not available	**Evaporation Rate**	Not available
Boiling Point Range	Not available	**Flammability (solid, gas)**	Not available
Autoignition	Not available	**Flash Point**	Not available
Lower Explosive Limit	Not available	**Decomposition**	Not available
Upper Explosive Limit	Not available	**Vapor Pressure**	Not available
Vapor Density (air=1)	Not available	**Specific Gravity (water=1)**	Not available
Water Solubility	Insoluble	**Partition coefficient: n-octanol/water**	Not available
Viscosity	Not available	**Solubility (Other)**	Not available
Bulk Density	Not available	**Density**	1.6
Log KOW	Not available	**Physical Form**	paste
Volatility	Not available	**OSHA Flammability Class**	Not available

Section 10 - STABILITY AND REACTIVITY

Reactivity
Unlikely to occur.

Chemical Stability
Stable under normal conditions of use.

Possibility of Hazardous Reactions
Unlikely to occur.

Conditions to Avoid
Avoid contact with incompatible materials. Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials
oxidizing materials, bases, combustible materials, strong acids, strong bases

Hazardous decomposition products
oxides of carbon, oxides of calcium, hydrogen chloride

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
No information on significant adverse effects.

Skin Contact
May cause allergic skin reaction.

Eye Contact
Causes serious eye irritation.

Ingestion
No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Precipitated Calcium carbonate (471-34-1)
Oral LD50Rat 6450 mg/kg
Titanium dioxide(inbound in mixture) (13463-67-7)
Oral LD50Rat >10000 mg/kg
Distillates (petroleum), hydrotreated middle (64742-46-7)
Oral LD50Rat 7400 mg/kg
Dermal LD50Rabbit >2000 mg/kg
Inhalation LC50Rat 4.6 mg/L 4 h
Diisodecyl phthalate (26761-40-0)
Oral LD50Rat 64 g/kg
Dermal LD50Rabbit >3160 mg/kg
Inhalation LC50Rat >12.54 mg/L 4 h

Immediate Effects
Causes serious eye damage.

Delayed Effects
May cause allergic skin reaction.

Irritation/Corrosivity Data
Causes serious eye irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
No data available.

Component Carcinogenicity

Titanium dioxide(inbound in mixture)	13463-67-7

ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 93 [2010]; Monograph 47 [1989](Group 2B (possibly carcinogenic to humans))
DFG:	Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles)
OSHA:	Present
Dibutyltin Diacetyldiacetonate	22673-19-4
ACGIH:	A4 - Not Classifiable as a Human Carcinogen (related to Tin organic compounds)
Diisodecyl phthalate	26761-40-0
DFG:	Category 3B (could be carcinogenic for man)

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
eyes

Specific Target Organ Toxicity - Repeated Exposure
No information on significant adverse effects.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
eye disorders, skin disorders

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Distillates (petroleum), hydrotreated middle	64742-46-7
Fish:	LC50 96 h Pimephales promelas 35 mg/L [flow-through]; LC50 96 h Pimephales promelas >10000 mg/L [static]
Diisodecyl phthalate	26761-40-0
Fish:	LC50 96 h Lepomis macrochirus >0.55 mg/L [static]; LC50 96 h Pimephales promelas >1 mg/L [flow-through]

Algae:	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID; EC50 96 h Pseudokirchneriella subcapitata >0.8 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna >0.02 mg/L [static] EPA

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
UN/NA #: Not Regulated

TDG Information:
UN#: Not Regulated

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.
SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Precipitated Calcium carbonate	471-34-1	No	Yes	Yes	Yes	Yes
Titanium dioxide(inbound in mixture)	13463-67-7	No	Yes	Yes	Yes	Yes
Dibutyltin Diacetyldiacetonate	22673-19-4	Yes	No	Yes	No	No
Diisodecyl phthalate	26761-40-0	Yes	No	No	No	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING!This product contains a chemical known to the state of California to cause cancer
WARNING!This product contains a chemical known to the state of California to cause reproductive/developmental effects

Titanium dioxide(inbound in mixture)	13463-67-7
Carc:	carcinogen , initial date 9/2/11 (airborne, unbound particles of respirable size)
Diisodecyl phthalate	26761-40-0
Repro/Dev. Tox	developmental toxicity , initial date 4/20/07

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Dibutyltin Diacetyldiacetonate	22673-19-4
	1 % (related to Tin compounds)

WHMIS Classification
D2B

Component Analysis - Inventory
Precipitated Calcium carbonate (471-34-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Titanium dioxide(inbound in mixture) (13463-67-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Distillates (petroleum), hydrotreated middle (64742-46-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Vinyltrimethoxysilane (2768-02-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Aminoethyl aminopropyl trimethoxy silane (1760-24-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No

Dibutyltin Diacetyldiacetonate (22673-19-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Diisodecyl phthalate (26761-40-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 3* Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 3 Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute

for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information
Reasonable care has been taken in the preparation of this information; however, the manufacturer makes no warranty whatsoever including the warranty of merchantability, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental, consequential, or other such damages resulting from its use or misuse.

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