

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : ALSAN Coating SIL 402

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

SOPREMA, Inc.
310 Quadral Dr
Wadsworth, OH 44281
T 1-800-356-3521

SOPREMA USA
12251 Seaway Road
Gulfport (Mississippi)
39507 UNITED STATES
Tel: 1-228-701-1900

Distributors:
SOPREMA Canada
44955 Yale Road West
Chilliwack (BC) V2R 4H3 CANADA
Tel: 1-604-793-7100

SOPREMA Canada
1675 Haggerty Street
Drummondville (Quebec) J2C 5P7
Tel: 1-819-478-8163

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-434-9300 (Acct.# CCN20515). CANUTEC 1-613-996-6666

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Carcinogenicity Category 2 H351 Suspected of causing cancer
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : H351 - Suspected of causing cancer
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Liquid Silicone Polymer (Trade Secret)	34-1672818-1035	40 – 60	Not classified
feldspars	CAS-No.: 68476-25-5	30 – 40	Not classified
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter ≤ 10 µm]	CAS-No.: 13463-67-7	0 – 10	Carc. 2, H351
butan-2-one O,O',O''-(methylsilylidyne)trioxime	CAS-No.: 22984-54-9	1 – 5	Flam. Liq. 4, H227
silica, pyrogenic	CAS-No.: 112945-52-5	1 – 5	Not classified
3-aminopropyltrimethoxysilane	CAS-No.: 13822-56-5	1 – 3	Flam. Liq. 4, H227

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ALSAN Coating SIL 402

No additional information available

Liquid Silicone Polymer (Trade Secret)

No additional information available

titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	0.2 mg/m ³ (Respirable fraction) 2.5 mg/m ³ (Respirable fraction)
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butan-2-one O,O',O''-(methylsilyldiyl)trioxime (22984-54-9)

No additional information available

3-aminopropyltrimethoxysilane (13822-56-5)

No additional information available

silica, pyrogenic (112945-52-5)

No additional information available

feldspars (68476-25-5)

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hand protection:
Wear protective gloves.
Eye protection:
Chemical goggles or safety glasses. Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Various colors available
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 300 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 11.1 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: ≈ 7518.383 mm ² /s
Viscosity, dynamic	: ≈ 10000 cP
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Liquid Silicone Polymer (Trade Secret)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
butan-2-one O,O',O''-(methylsilylidyne)trioxime (22984-54-9)	
LD50 oral rat	2463 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
3-aminopropyltrimethoxysilane (13822-56-5)	
LD50 oral rat	2.97 ml/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	11.3 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat [ppm]	> 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Read-across, Inhalation (vapours), 14 day(s))

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

silica, pyrogenic (112945-52-5)	
LD50 oral rat	3160 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: $\approx 7518.383 \text{ mm}^2/\text{s}$
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Liquid Silicone Polymer (Trade Secret)	
LC50 - Fish [1]	> 10000 mg/l (96 h, <i>Salmo gairdneri</i> , Static system, Literature study)
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)	
LC50 - Fish [1]	> 100 mg/l (Equivalent or similar to OECD 203, 96 h, <i>Oncorhynchus mykiss</i> , Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, Nominal concentration)
butan-2-one O,O'-(methylsilylidyne)trioxime (22984-54-9)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oryzias latipes</i> , Semi-static system, Fresh water, Read-across, GLP)
EC50 - Crustacea [1]	201 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Read-across, GLP)
ErC50 algae	16 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, GLP)
3-aminopropyltrimethoxysilane (13822-56-5)	
LC50 - Fish [1]	> 934 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Danio rerio</i> , Semi-static system, Fresh water, Read-across, GLP)
EC50 - Crustacea [1]	331 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Read-across, GLP)

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2. Persistence and degradability

ALSAN Coating SIL 402	
Persistence and degradability	Not established.
Liquid Silicone Polymer (Trade Secret)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
butan-2-one O,O',O''-(methylsilyldiylidene)trioxime (22984-54-9)	
Persistence and degradability	Not readily biodegradable in water.
3-aminopropyltrimethoxysilane (13822-56-5)	
Persistence and degradability	Not readily biodegradable in water.
silica, pyrogenic (112945-52-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
feldspars (68476-25-5)	
Persistence and degradability	Biodegradability in soil: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

ALSAN Coating SIL 402	
Bioaccumulative potential	Not established.
Liquid Silicone Polymer (Trade Secret)	
BCF - Fish [1]	2.9 – 1250 (3 day(s), Hypophthalmichthys molitrix, Literature study)
Bioaccumulative potential	No straightforward conclusion can be drawn based upon the available numerical values.
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.
butan-2-one O,O',O''-(methylsilyldiylidene)trioxime (22984-54-9)	
BCF - Fish [1]	0.5 – 5.8 (6 week(s), Cyprinus carpio, Flow-through system, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	0.36 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3-aminopropyltrimethoxysilane (13822-56-5)	
Partition coefficient n-octanol/water (Log Pow)	0.2 (QSAR, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
silica, pyrogenic (112945-52-5)	
Bioaccumulative potential	Not bioaccumulative.
feldspars (68476-25-5)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

Liquid Silicone Polymer (Trade Secret)	
Ecology - soil	Adsorbs into the soil. Low potential for mobility in soil. Not toxic to plants.
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
butan-2-one O,O',O''-(methylsilylidyne)trioxime (22984-54-9)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.481 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.
3-aminopropyltrimethoxysilane (13822-56-5)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

DOT NA No : DOT 49 CFR 173.150 SUB.PAR.F. Unregulated
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

UN-No.(DOT) : DOT 49 CFR 173.150 SUB.PAR.F. Unregulated

DOT Packaging Exceptions (49 CFR 173.xxx) : Combustible Liquid - DOT 49 CFR 173.150 SUB.PAR.F. Unregulated

DOT Packaging Bulk (49 CFR 173.xxx) : Unregulated when shipped in non-bulk containers

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Liquid Silicone Polymer (Trade Secret)		Not present	-	

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	CAS-No.	Listing	Commercial status	Flags
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	13463-67-7	Present	Active	
butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	Present	Active	
3-aminopropyltrimethoxysilane	13822-56-5	Present	Active	
silica, pyrogenic	112945-52-5	Not present	-	
feldspars	68476-25-5	Present	Active	

15.2. International regulations

CANADA

Liquid Silicone Polymer (Trade Secret)

Listed on the Canadian DSL (Domestic Substances List)

titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

butan-2-one O,O',O''-(methylsilylidyne)trioxime (22984-54-9)

Listed on the Canadian DSL (Domestic Substances List)

3-aminopropyltrimethoxysilane (13822-56-5)

Listed on the Canadian DSL (Domestic Substances List)

silica, pyrogenic (112945-52-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Liquid Silicone Polymer (Trade Secret)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$] (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

silica, pyrogenic (112945-52-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

ALSAN Coating SIL 402

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations

Component	State or local regulations
titanium(IV) oxide; [crystalline solid or in powder form containing less than 1 % particles with aerodynamic diameter $\leq 10 \mu\text{m}$](13463-67-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 09/01/2022

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases	
H227	Combustible liquid
H351	Suspected of causing cancer

Soprema SDS USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.