Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 02/13/2019 Reviewed on 02/13/2019

1 Identification

· **Product Identifier**

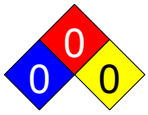
· **Trade Name: OS300, OS400, IS300**
· **Relevant identified uses of the substance or mixture and uses advised against:** Drywall Applications
· **Product Description:** Construction Product

· **Details of the Supplier of the Safety Data Sheet:**
· **Manufacturer/Supplier:**
ClarkDietrich-StraitFlex
3851 Corporate Center Drive
O'Fallon, MO, 63368
Fax: 636-300-0414
Straitflex.com
· **Emergency telephone number:** 1-636-300-1411

2 Hazard(s) Identification

· **Classification of the substance or mixture:**
The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

· **Label elements:**
· **GHS label elements** Non-Regulated Material
· **Hazard pictograms:** Non-Regulated Material
· **Signal word:** Non-Regulated Material
· **Hazard statements:** Non-Regulated Material
· **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 0
Physical Hazard = 0

· **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 9004-34-6	Cellulose Acute Tox. 3, H311	25-50%
CAS: 9002-86-2 RTECS: KV0350000	Polyvinyl chloride STOT SE 3, H335	25-50%

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CAS: 7631-86-9	Silicon Dioixde Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	<1%
CAS: 101-68-8 RTECS: NQ 9350000	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	<1%
CAS: 5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate Resp. Sens. 1, H334; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	<1%
	Proprietary Acrylic Copolymer Acute Tox. 4, H302; Acute Tox. 4, H312	<1%
	Fibrous Cotton Powder Combustible Dust	<2%
	Fibrous Wool Powder Combustible Dust	<2%
	Proprietary Vinyl Acetate Copolymer Combustible Dust	<1%

· ***Additional information:***
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.
The ingredients of this mixture are considered to be proprietary and are withheld in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.
The components listed above pose no direct hazard to the end user under normal use and operating conditions, as they are combined and transformed into a solid product.

4 First-Aid Measures

· ***Description of first aid measures***
· ***General information:*** No special measures required.
· ***After inhalation:*** Not anticipated under normal use.
· ***After skin contact:***
Wash with soap and water.
If skin irritation occurs, consult a doctor.
· ***After eye contact:***
Rinse opened eye for several minutes under running water.
If eye irritation occurs, consult a doctor.
· ***After swallowing:*** Not a normal route of entry.
· ***Information for doctor***
· ***Most important symptoms and effects, both acute and delayed:*** No further relevant information available.
· ***Indication of any immediate medical attention and special treatment needed:***
No further relevant information available.

5 Fire-Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** Use fire fighting measures that suit the environment.
· ***For safety reasons unsuitable extinguishing agents:*** No further relevant information.
· ***Special hazards arising from the substance or mixture:*** No further relevant information available.

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· ***Advice for firefighters***
· ***Special protective equipment for firefighters:***
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures:*** Not required.
· ***Environmental precautions:*** No special measures required.
· ***Methods and material for containment and cleaning up:***
Dispose of the collected material according to regulations.
· ***Reference to other sections:***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· ***Protective Action Criteria for Chemicals***

· ***PAC-1:***		
9002-86-2	Polyvinyl chloride	3 mg/m³
7631-86-9	Silicon Dioixde	18 mg/m³
101-68-8	4,4'-methylenediphenyl diisocyanate	0.45 mg/m³

· ***PAC-2:***		
9002-86-2	Polyvinyl chloride	33 mg/m³
7631-86-9	Silicon Dioixde	740 mg/m³
101-68-8	4,4'-methylenediphenyl diisocyanate	5 mg/m³

· ***PAC-3:***		
9002-86-2	Polyvinyl chloride	200 mg/m³
7631-86-9	Silicon Dioixde	4,500 mg/m³
101-68-8	4,4'-methylenediphenyl diisocyanate	55 mg/m³

7 Handling and Storage

· ***Handling***
· ***Precautions for safe handling:*** No special measures required.
· ***Information about protection against explosions and fires:*** No special measures required.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and receptacles:*** Store in a cool, dry place.
· ***Information about storage in one common storage facility:*** Not required.
· ***Further information about storage conditions:*** None.
· ***Specific end use(s):*** No further relevant information available.

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8 Exposure Controls/Personal Protection

· ***Additional information about design of technical systems:*** No further data; see section 7.

· ***Control parameters:***
· ***Components with occupational exposure limits:***
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

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9004-34-6 Cellulose	
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV	Long-term value: 10 mg/m³
9002-86-2 Polyvinyl chloride	
TLV	Long-term value: 1* mg/m³ *as respirable fraction
7631-86-9 Silicon Dioixde	
ACGH	Short-term value: 3 mg/m³ Long-term value: 10 mg/m³
IDLH	Short-term value: 3000 mg/m³ Long-term value: 4 E mg/m³ IDLH: Immediately dangerous to life or health
TWA	Short-term value: 6 mg/m³ Long-term value: 4 E mg/m³
101-68-8 4,4'-methylenediphenyl diisocyanate	
PEL	Ceiling limit value: 0.2 mg/m³, 0.02 ppm
REL	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min
TLV	Long-term value: 0.051 mg/m³, 0.005 ppm
Fibrous Cotton Powder	
OSHA PEL	Short-term value: 15 mg/m³, 5 ppm Long-term value: 15 mg/m³, 5 ppm Ceiling limit value: 15 mg/m³, 5 ppm
Fibrous Wool Powder	
OSHA PEL	Short-term value: 15 mg/m³, 5 ppm Long-term value: 15 mg/m³, 5 ppm Ceiling limit value: 15 mg/m³, 5 ppm

· ***Additional information:*** The lists that were valid during the creation of this SDS were used as basis.

· ***Exposure controls:***
· ***Personal protective equipment***
· ***General protective and hygienic measures:*** No special measures required.
· ***Breathing equipment:*** Not required.
· ***Protection of hands:*** Not required.
· ***Eye protection:***

Safety glasses

· ***Limitation and supervision of exposure into the environment:*** None

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9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Formed Strip
Color:	White
· **Odour:**	Odorless
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· **Flash point:**	None
· **Flammability (solid, gaseous):**	Not determined.
· **Ignition temperature:**	Not applicable
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not self-igniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not applicable.
· **Density:**	
Relative density:	Not determined.
Vapor density:	Not applicable.
Evaporation rate:	Not applicable.
· **Solubility in / Miscibility with:**	
Water:	Insoluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Other information:**	No further relevant information available.

10 Stability and Reactivity

· **Reactivity:** The product is stable under normal conditions
· **Chemical stability:** Stable under normal conditions.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:** No dangerous reactions known.
· **Conditions to avoid:** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological Information

· **Information on toxicological effects:**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

9004-34-6 Cellulose		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
9002-86-2 Polyvinyl chloride		
Oral	LD50	210 mg/kg (Rat)
7631-86-9 Silicon Dioixde		
Oral	LD50	10,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50/4 h	>140->2,000 mg/l (Rat) (OCED 403) Maximum attainable concentration, mortality does not appear. 10,000 mg/l (Zebra fish) (OECD 203)
101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	2,200 mg/kg (Mouse)
Dermal	LD50	>9,400 mg/kg (Rabbit)
Inhalative	LC50/4 h	>1,000 mg/l (Trout)
Proprietary Acrylic Copolymer		
Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

· **Primary irritant effect:**
· **On the skin:** No irritating effect.
· **On the eye:** No irritating effect.
· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

9002-86-2	Polyvinyl chloride	3
7631-86-9	Silicon Dioixde	3
101-68-8	4,4'-methylenediphenyl diisocyanate	3

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

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12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**	
7631-86-9 Silicon Dioixde	
EC50	>1,000 mg/l (Daphnia) (OECD 202)
101-68-8 4,4'-methylenediphenyl diisocyanate	
EC50	>1,000 mg/l (Daphnia)

· **Persistence and degradability:** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.
· **Additional ecological information:**
· **General notes:** Generally not hazardous for water.
· **Results of PBT and vPvB assessment:**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

· **Waste treatment methods**
· **Recommendation:**
Smaller quantities can be disposed of with household waste.
Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

· **UN-Number:**
· **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
· **UN proper shipping name:**
· **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**
· **Class:** Non-Regulated Material
· **Packing group:**
· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
· **Environmental hazards:** Not applicable.
· **Special precautions for user:** Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
· **UN "Model Regulation":** Non-Regulated Material

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15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

101-68-8	4,4'-methylenediphenyl diisocyanate

· **TSCA (Toxic Substances Control Act):**

9004-34-6	Cellulose
9002-86-2	Polyvinyl chloride
7631-86-9	Silicon Dioixde
101-68-8	4,4'-methylenediphenyl diisocyanate
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate

· **TSCA new (21st Century Act): (Substances not listed)**

Proprietary Acrylic Copolymer
Fibrous Cotton Powder
Fibrous Wool Powder
Proprietary Vinyl Acetate Copolymer

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

9004-34-6	Cellulose
9002-86-2	Polyvinyl chloride
101-68-8	4,4'-methylenediphenyl diisocyanate

· **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.

· **Pennsylvania Right-to-Know List:**

9004-34-6	Cellulose
7631-86-9	Silicon Dioixde
101-68-8	4,4'-methylenediphenyl diisocyanate

· **Pennsylvania Special Hazardous Substance List:**

101-68-8	4,4'-methylenediphenyl diisocyanate	E

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· ***Carcinogenic categories:***

· ***EPA (Environmental Protection Agency):***		
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD

· ***TLV (Threshold Limit Value established by ACGIH):***		
9002-86-2	Polyvinyl chloride	A4

· ***NIOSH-Ca (National Institute for Occupational Safety and Health):***
None of the ingredients are listed.

· ***GHS label elements*** Non-Regulated Material
· ***Hazard pictograms:*** Non-Regulated Material
· ***Signal word:*** Non-Regulated Material
· ***Hazard statements:*** Non-Regulated Material

· ***National regulations:***
None of the ingredients are listed.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· ***Date of preparation / last revision:*** 02/13/2019 / 1
· ***Abbreviations and acronyms:***
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
· **** Data compared to the previous version altered.***
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