SECTION 1: Identification and Company Details

Product Name: DinoGrip Recycled Rubber Flooring Adhesive
Recommended Use: Flooring Adhesive
Product Code: 291750000
Manufacturer/Supplier: Dinoflex
Address: 5590 - 46th Ave SE
Salmon Arm, British Columbia
Canada V1E 4S1
Emergency Phone: (USA) CHEMTREC 1-800-424-9300 (24 hour response)
(Canada) CANUTEC 1-613-996-6666 (24 hour response)

SECTION 2: Hazard(s) Identification

Classification of the chemical
Eye Irrit. 2A Cause serious eye irritation.
Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 May cause allergic skin reaction.
STOT RE 2 May cause damage to organs through prolonged or repeated exposure if inhaled.
Carc. 2 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

Label Elements
Pictograms and Signal Words

Danger

Hazard Statements:
H317 May cause an allergic skin reaction.
H319 Cause serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351.G Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H373.A May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary Statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264.2 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P302+P352.A IF ON SKIN: Wash with plenty of water.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposes or concerned: Get medical advice/attention.
P321.A Specific treatment (see supplementary instructions on this label)
P222+P313 IF skin irritation or rash occurs: Get medical advice/attention.
P337+P313 IF eye irritation persists: Get medical advice/attention.
P342+P311.A IF experiencing respiratory symptoms: Call a POISON CENTER.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501.A Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:
None

Hazards not otherwise classified identified during the classification process:
None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard).

SECTION 3: Composition/Information on Ingredients

Substances
N.A.

Mixtures
List of components

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Name</th>
<th>Ident. Numb.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5-5%</td>
<td>Calcium Oxide</td>
<td>CAS: 1305-78-8</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H335; Eye Dam. 1, H318</td>
</tr>
<tr>
<td>1-2.5%</td>
<td>Methylene diisocyanate (MDI)</td>
<td>CAS: 26447-40-5</td>
<td>Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332</td>
</tr>
<tr>
<td>1-2.5%</td>
<td>4, 4'-Methylene diphenyl diisocyanate</td>
<td>CAS: 101-68-8</td>
<td>Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H351</td>
</tr>
<tr>
<td>0.25-0.49%</td>
<td>Silica Sand</td>
<td>CAS: 14808-60-7</td>
<td>Carc. 1A, H350; STOT RE 1, H372</td>
</tr>
<tr>
<td>0.1-0.25%</td>
<td>4-Methylbenzenesulfonyl isocyanate</td>
<td>CAS: 4083-64-1</td>
<td>Eye Irrit. 2A, H319; STOT SE 3, H224; Skin Irrit. 2, H315; Resp. Sens. 1, H334</td>
</tr>
</tbody>
</table>

SECTION 4: First Aid Measures

Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eye contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of inhalation:

- If breathing is irregular or stopped, administer artificial respiration.
- In case of inhalation, consult a doctor immediately and show them packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
SECTION 5: Fire-fighting measures

Extinguishing media
Suitable extinguishing media:
- Water
- Carbon dioxide (CO2)

Unsuitable extinguishing media:
- None in particular.

Specific hazards arising from the chemical
- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters
- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
- Wear personal protection equipment.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- See protective measures under section 7 and 8.

Methods and material for containment and cleaning up
- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

SECTION 7: Handling and Storage

Precautions for safe handling
- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Use localized ventilation system.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat to drink while working.
- See also section 8 for recommended protective equipment.
Conditions for safe storage, including and incompatibilities
Storage Temperature: N.A.
Incompatible Materials: None in particular.
Instructions as regards storage premises: Adequately ventilated premises.

SECTION 8: Exposure Controls / Personal Protection

Control parameters

List of components with OEL value

<table>
<thead>
<tr>
<th>Component</th>
<th>OEL Type</th>
<th>Ceiling</th>
<th>Long Term mg/m3</th>
<th>Long Term ppm</th>
<th>Short Term mg/m3</th>
<th>Short Term ppm</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td>OSHA</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td>Upper respiratory tract irritation;</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methylene diphenyl diisocyanate (MDI)</td>
<td>OSHA</td>
<td>C</td>
<td>0,2</td>
<td>0,02</td>
<td></td>
<td></td>
<td>Respiratory sensitzation (listed under Methylene bisphenyl isocyanate (MDI);</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td></td>
<td>0,005</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4’0 Methylene diphenyl diisocyanate</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
<td>C</td>
<td>0,2</td>
<td>0,02</td>
<td></td>
<td></td>
<td>A2- Suspected Human Carcinogen; lung cancer; pulmonary fibrosis;</td>
</tr>
<tr>
<td>Silica Sand</td>
<td>ACGIH</td>
<td></td>
<td>0,025</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls: N.A.

Individual protection measures

Eye Protection: Use close fitting safety goggles, don't use eye lense.

Protection for Skin: Use clothing that provides comprehensive protection to the skin; e.g. cotton rubber, PVC or viton.

Protection for Hands: Use protective gloves that provides comprehensive protection, e.g. PVC, neoprene or rubber.

Respiratory Protection: Use adequate protective respiratory equipment.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Liquid
Appearance and color: Paste beige
Odour: Characteristic
Odour threshold: N.A.
pH: 9
Melting Point/Freezing Point: N.A.
Initial boiling point and boiling range: >100 °C (212 °F)
Flash Point: >100 °C (212 °F)
Evaporation Rate: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: 1.1-1.2
Vapour pressure: N.A.
Relative density: 1.45 g/cm³
Solubility in water: Soluble
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.
Solid/gas flammability: N.A.
VOC 37 g per L

Other information
- Substance groups relevant properties: N.A.
- Miscibility: N.A.
- Fat Solubility: N.A.
- Conductivity: N.A.

SECTION 10: Stability and Reactivity

Reactivity
- Stable under normal conditions

Chemical Stability
- Data not available.

Possibility of hazardous reactions
- None

Conditions to avoid
- Stable under normal conditions

Incompatible materials
- None in particular

Hazardous decomposition products
- None
**SECTION 11: Toxicological Information**

Information on toxicological effects

**Toxicological information of the mixture:**
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

**Toxicological information on main components of the mixture:**

<table>
<thead>
<tr>
<th>Component</th>
<th>a) acute toxicity</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide</td>
<td></td>
<td>500 mg/kg</td>
<td></td>
</tr>
<tr>
<td>4,4'-Methylenediphenyl diisocyanate</td>
<td></td>
<td></td>
<td>369 mg/m³ 4h</td>
</tr>
<tr>
<td>Methylenediphenyl diisocyanate (MDI)</td>
<td></td>
<td></td>
<td>369 mg/l 4h</td>
</tr>
<tr>
<td>Silica Sand</td>
<td></td>
<td></td>
<td>7400 mg/kg</td>
</tr>
<tr>
<td>4-Methylbenzenesulfonyl isocyanate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

- 4,4'-Methylenediphenyl diisocyanate Group 3
- Methylenediphenyl diisocyanate (MDI) Group 3
- Silica Sand Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

- Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

- Silica Sand
**Substance(s) listed on the NTP report on Carcinogens:**
Silica Sand

**SECTION 12: Ecological Information**

**Toxicity**
Adopt good working practices, so that the product is not released into the environment.

**Eco-Toxicological Information:**

**List of components with eco-toxicological properties**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
<th>Ident. Numb.</th>
<th>Ecotox Infos</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5-5 %</td>
<td>Calcium oxide</td>
<td>CAS: 1305-78-8</td>
<td>a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID</td>
</tr>
<tr>
<td>1-2.5 %</td>
<td>Methylenediphenyl diisocyanate (MDI)</td>
<td>CAS: 26447-40-5</td>
<td>d) Terrestrial toxicity : LC50 Worm Eisenia foetida &gt; 1000 mg/kg 14d IUCLID d) Terrestrial toxicity : NOEC Worm Eisenia foetida &gt;= 1000 mg/kg 14d IUCLID</td>
</tr>
<tr>
<td>0.25-0.49%</td>
<td>Silica Sand</td>
<td>CAS: 14808-60-7</td>
<td>a) Aquatic acute toxicity : LC50 carp &gt; 10000,00000 mg/L 72h</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
N.A.

**Bioaccumulative potential**
N.A.

**Mobility in soil**
N.A.

**Other adverse effects**
N.A.

**SECTION 13: Disposal Considerations**

**Waste treatment methods**
Waste must be handled in accordance with all federal, state, provincial, and local regulations.
Consult authorities before disposal.

**SECTION 14: Transport Information**

**UN number**
ADR-UN number: N/A
DOT-UN Number: N/A
IATA-Un number: N/A
IMDG-Un number: N/A

**UN proper shipping name**
ADR-Shipping Name: N/A
DOT- Proper Shipping Name: N/A
IATA-Technical name: N/A
IMDG-Technical name: N/A
Transport hazard class(es)
ADR-Class: N/A
DOT-Hazard Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

Packing group
ADR-Packing Group: N/A
DOT-Packing group: N/A
IATA-Packing group: N/A
IMDG-Packing group: N/A

Environmental hazards
Marine pollutant: No
Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N.A.

Special precautions
Department of Transportation (DOT):
DOT-Special Provision(s): N/A
DOT-Label(s): N/A
DOT-Symbol: N/A
DOT-Cargo Aircraft: N/A
DOT-Passenger Aircraft: N/A
DOT-Bulk: N/A
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):
ADR-Label: N/A
ADR-Hazard identification number: N/A
ADR-Transport category (Tunnel restriction code): N/A

Air (IATA):
IATA-Passenger Aircraft: N/A
IATA-Cargo Aircraft: N/A
IATA-Label: N/A
IATA-Subrisk: N/A
IATA-Erg: N/A
IATA-Special Provisions: N/A

Sea (IMDG):
IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subrisk: N/A
IMDG-Special Provisions: N/A
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: N/A
IMDG-MFAG: N/A
SECTION 15: Regulatory Information

USA - Federal regulations

TSCA - Toxic Substances Control Act
TSCA inventory:
All the components are listed on the TSCA inventory
TSCA listed substances:
- Calcium oxide is listed in TSCA Section 8b
- Methylenediphenyl diisocyanate (MDI) is listed in TSCA Section 8b Section 8a - PAIR
- 4,4’-Methylenediphenyl diisocyanate is listed in TSCA Section 8b Section 8a - PAIR
- Silica Sand is listed in TSCA Section 8b
- 4-Methylbenzenesulfonyl isocyanate is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act
Section 302 - Extremely Hazardous Substances:
no substances listed
Section 304 - Hazardous substances:
- 4,4’-Methylenediphenyl diisocyanate
Section 313 - Toxic chemical list:
- 4,4’-Methylenediphenyl diisocyanate

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
Substance(s) listed under CERCLA:
- 4,4’-Methylenediphenyl diisocyanate Reportable quantity: 5000 pounds

CAA - Clean Air Act
CAA listed substances:
- 4,4’-Methylenediphenyl diisocyanate is listed in CAA Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act
CWA listed substances:
no substances listed

USA - State specific regulations
California Proposition 65
Substance(s) listed under California Proposition 65:
- Silica Sand Listed as carcinogen

Massachusetts Right to know
Substance(s) listed under Massachusetts Right to know:
- Calcium oxide
- Methylenediphenyl diisocyanate (MDI)
- 4,4’-Methylenediphenyl diisocyanate
- Silica Sand
Pennsylvania Right to know
Substance(s) listed under Pennsylvania Right to know:
- Calcium oxide
- 4,4’-Methylenediphenyl diisocyanate
- Silica Sand

New Jersey Right to know
Substance(s) listed under New Jersey Right to know:
- Calcium oxide
- Methylenediphenyl diisocyanate (MDI)
- 4,4’-Methylenediphenyl diisocyanate
- Silica Sand

Canada - Federal regulations
DSL - Domestic Substances List
DSL Inventory:
All the substances are listed in the DSL.

NDSL - Non Domestic Substances List
NDSL Inventory:
o no substances listed

NPRI - National Pollutant Release Inventory
Substances listed in NPRI:
o no substances listed

SECTION 16: Other Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>H351.G</td>
<td>Suspected of causing cancer if inhaled, in contact with skin and if swallowed.</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H373.A</td>
<td>May cause damage to organs through prolonged or repeated exposure if inhaled.</td>
</tr>
</tbody>
</table>
Additional classification information

HMIS Health: 1 = Slight
HMIS Health - Is health hazard chronic?: Yes
HMIS Flammability: 1 = Combustible if heated
HMIS Reactivity: 0 = Minimal
HMIS P.P.E.: Safety glasses, gloves
NFPA Health: 1 = Slight
NFPA Flammability: 1 = Combustible if heated
NFPA Reactivity: 0 = Minimal
NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.

End of document.