# IntegraFlex 1922 Hardener
## (Part B)
## Safety Data Sheet (SDS)

## Section 1 - Product and Company Identification

**Trade Name:** IntegraFlex 1922 Hardener (All Versions) **Product Code:** IntegraFlex 1922-500 GY6A Hardener

**Company:**
Wolverine Coatings Corporation
5969 Highway 221
Roebuck, SC 29376
+1 (864) 587-3144

**Emergency Contact:**
ChemTel 24 Hr. US Emergency Number:
+1 (800) 255-3924
ChemTel 24 Hr. Worldwide Emergency Number:
+1 (813) 248-0585

**Product Use:** Coatings

**Not recommended for:** None Identified

## Section 2 - Hazards Identification

**GHS Ratings:**

| | | |
|---|---|---|
| Skin Corrosive | 1B | Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal |
| Eye Corrosive | 1 | Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5 |
| Skin Sensitizer | 1 | Skin Sensitizer |
| Mutagen | 2 | Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity |
| Carcinogen | 1A | Known Human Carcinogen Based on human evidence |
| Reproductive Toxin | 1B | Presumed, Based on experimental animals |

**GHS Hazards**

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H341 | Suspected of causing genetic defects |
| H350 | May cause cancer |
| H360 | May damage fertility or the unborn child |

**GHS Precautions**

| | |
|---|---|
| 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 |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray |
| P264 | Wash 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 |
| P281 | Use personal protective equipment as required |
| P310 | Immediately call a POISON CENTER or doctor/physician |
| P321 | Specific treatment (see label) |
| P363 | Wash contaminated clothing before reuse |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |

| | |
|---|---|
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P308+P313 | IF exposed or concerned: Get medical advice/attention |
| P333+P313 | If skin irritation or a rash occurs: Get medical advice/attention |
| P405 | Store locked up |
| P501 | Dispose of contents/container in accordance with all local, regional, national, and international regulations. |

**Signal Word:** Danger

## Section 3 - Composition / Information on Ingredients

| Chemical Name | CAS number | Weight Concentration % |
|---|---|---|
| Nonylphenol | 84852-15-3 | 40.00% - 50.00% |
| Quartz | 14808-60-7 | 10.00% - 20.00% |
| Cenospheres | 68131-74-8 | 5.00% - 10.00% |
| Hydrous magnesium silicate | 14807-96-6 | 5.00% - 10.00% |
| 1-(2-Aminoethyl)piperazine | 140-31-8 | 5.00% - 10.00% |
| Silicones and Siloxanes, dimethyl-, reaction products with silica | 67762-90-7 | 5.00% - 10.00% |
| n-Butyl phthalate | 84-74-2 | 5.00% - 10.00% |
| Titanium Dioxide | 13463-67-7 | 1.00% - 5.00% |

## Section 4 - First Aid Measures

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Eye Contact:** Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

## Section 5 - Fire Fighting Measures

**Flash Point:** 150 C (302 F) LEL: UEL: 9.00

**Extinguishing Media:** Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder extinguishing systems.

**Unusual Fire and Explosion Hazards:** None

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.
**Special Fire Fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus.
**Fire Equipment:** No Data

## Section 6 - Accidental Release Measures

**Spill And Leak Procedures:** Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

## Section 7 - Handling and Storage

**Handling Precautions:** Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

**Storage Requirements:** Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

## Section 8 - Exposure Controls / Personal Protection

| Chemical Name / CAS # | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|---|---|---|
| Nonylphenol<br>84852-15-3 | Not Established | Not Established | Not Established |
| Quartz<br>14808-60-7 | TWA30 mg/m3 / %SiO2+2 total dust TWA: 10 mg/m3 /%SiO2+2 respirable fraction | TWA: 0.025 mg/m3 | Not Established |
| Cenospheres<br>68131-74-8 | Not Established | Not Established | Not Established |
| Hydrous magnesium silicate<br>14807-96-6 | TWA: 20 million particles per ft3 | TWA: 2 mg/m3 | Not Established |
| 1-(2-Aminoethyl)piperazine<br>140-31-8 | Not Established | Not Established | Not Established |
| Silicones and Siloxanes, dimethyl-, reaction products with silica<br>67762-90-7 | PEL: 6 mg/m3 | TWA: 10 mg/m3 Inhalable | Not Established |
| n-Butyl phthalate<br>84-74-2 | TWA- 5 mg/m3 | TLV: TWA- 5 mg/m3 | Not Established |
| Titanium Dioxide<br>13463-67-7 | TWA: 15 mg/m3 | TWA: 10 mg/m3 | Not Established |

**Ventilation:** Good general mechanical ventilation and local exhaust is recommended.

**Hygiene:** Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

**Personal Protective Equipment:** Wear impervious protective gloves. Wear OSHA, NIOSH approved organic vapor respirator if ventilation is inadequate. Wear appropriate protective eyewear such as splash-proof, chemical resistant safety goggles.

**Contaminated Gear:** Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

## Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

| | | | |
|---|---|---|---|
| **Appearance:** | Liquid | **Odor:** | Not available |
| **Vapor Pressure:** | 0.10 mm Hg | **Odor threshold:** | Not available |
| **Vapor Density:** | Not available | **pH:** | Not available |
| **Density (g/cm3):** | 1.18 | **Melting point:** | Not available |
| **Freezing point:** | Not available | **Solubility:** | Not available |
| **Boiling range:** | Not available | **Flash point:** | 150 C, 302 F |
| **Evaporation rate:** | Not available | **Flammability:** | Not available |
| **Explosive Limits:** | Not available | **Partition coefficient (n-octanol/water):** | Not available |
| **Autoignition temperature:** | Not available | **Decomposition temperature:** | Not available |
| **Viscosity:** | Not available | **Grams VOC less water:** | Not available |

## Section 10 - Stability and Reactivity

**Stability:**

STABLE

**Components of this mixture are incompatible with the following materials:**

Strong Oxidizers
Strong Bases
Strong Acids
Nitrates
Chlorine

**This mixture is likely to exhibit the following combustion products:**

Carbon Dioxide, Carbon Monoxide

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

**Mixture Toxicity:**

Oral Toxicity LD50: 2,403mg/kg
Dermal Toxicity LD50: 3,447mg/kg
Inhalation Toxicity LC50: 42mg/L

**Component Toxicity:**

| | |
|---|---|
| 84852-15-3 | Nonylphenol<br>Oral LD50: 1,412 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit) |
| 68131-74-8 | Cenospheres<br>Oral LD50: 2,000 mg/kg Dermal LD50: 2,000 mg/kg Inhalation LC50: 5 mg/L |
| 140-31-8 | 1-(2-Aminoethyl)piperazine<br>Oral LD50: 2,097 mg/kg (rat) Dermal LD50: 866 mg/kg (rabbit) |
| 67762-90-7 | Silicones and Siloxanes, dimethyl-, reaction products with silica<br>Dermal LD50: 2,100 mg/kg (Rat) |
| 84-74-2 | n-Butyl phthalate |

Inhalation LC50: 4,250 mg/m3 (rat)

13463-67-7 Titanium Dioxide
Inhalation LC50: 7 mg/kg (Rat)

**Routes of Entry:**

Inhalation Skin Contact Eye Contact Ingestion

**Exposure to this material may affect the following organs:**

Lungs Respiratory System

The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing):

| CAS Number | Description | % Weight | Carcinogen Rating |
|---|---|---|---|
| 14808-60-7 | Quartz | 10 to 20% | Quartz: If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes. |

## Section 12 - Ecological Information

**Component Ecotoxicity:**

| | |
|---|---|
| Nonylphenol | LC50 0.209 mg/l fish 96h; EC50 0.0844 mg/l water flea 48h |
| Quartz | LC50 >10,000 mg/l fish 72h; EC50 7600 mg/L water flea 48h; EC50 440mg/L algae, 72h; |
| Hydrous magnesium silicate | LC50 >100 g/l fish |
| 1-(2-Aminoethyl)piperazine | LC50 2190 mg/l fish 96h; EC50 58 mg/l water flea 48h; EC50 495 mg/l algae 72h; EC50 511 mg/l bacteria 2h |
| Silicones and Siloxanes, dimethyl-, reaction products with silica | LC50 >10,000 mg/l fish 96h; EC50 >1000 mg/l water flea 24h |
| n-Butyl phthalate | LC50 0.85 mg/l fish 96h; LC50 3.7 mg/l water flea 48h |
| Titanium Dioxide | LC50 >1000 mg/l fish 96h; EC50 >1000 mg/l water flea 48h; EC50 >100 mg/l algae 72h |

## Section 13 - Disposal Considerations

**Waste disposal Methods:** Dispose in accordance with Federal, State and Local regulations.

## Section 14 - Transport Information

This material is classified for transport as follows:

| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|---|---|---|---|---|
| DOT | Paint Related Material, Corrosive | 3066 | III | 8 |
| IATA | No Data | | | |
| IMDG | No Data | | | |

## Section 15 - Regulatory Information

**Additional regulatory listings, where applicable:**

**State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**
WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

Titanium Dioxide 13463-67-7
n-Butyl phthalate 84-74-2
Hydrous magnesium silicate 14807-96-6
Cenospheres 68131-74-8
Quartz 14808-60-7

**Materials not included on the Canada DSL inventory:**
- None

**Commonwealth of Massachusetts "Right to Know":** This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:
Titanium Dioxide 13463-67-7
n-Butyl phthalate 84-74-2
1-(2-Aminoethyl)piperazine 140-31-8
Hydrous magnesium silicate 14807-96-6
Cenospheres 68131-74-8
Quartz 14808-60-7

**NJ "Right to Know":** This product contains the following toxic or hazardous substances which appear on the New Jersey Substance List:
Titanium Dioxide 13463-67-7
n-Butyl phthalate 84-74-2
1-(2-Aminoethyl)piperazine 140-31-8
Hydrous magnesium silicate 14807-96-6
Cenospheres 68131-74-8
Quartz 14808-60-7
Nonylphenol 84852-15-3

**Pennsylvania "Right to Know":** This product contains the following toxic or hazardous substances which appear on the Pennsylvania Substance List:
Titanium Dioxide 13463-67-7
n-Butyl phthalate 84-74-2
1-(2-Aminoethyl)piperazine 140-31-8
Hydrous magnesium silicate 14807-96-6
Cenospheres 68131-74-8
Quartz 14808-60-7
Nonylphenol 84852-15-3

**EPA SARA Title III Section 313 ( 40 CFR 372) components above 'de minimum' level:**
n-Butyl phthalate 84-74-2
Cenospheres 68131-74-8

**Toxic Substances Control Act (TSCA):** All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:
- None

**Country** **Regulation** **All Components Listed**

**EU Risk Phrases**

**Safety Phrase**

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:
- None

EPA SARA Title III Section 313 ( 40 CFR 372) compnenets above 'de minimum' level:

## Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

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