

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/09/2018

Reviewed on 04/03/2018

## 1 Identification

- **Product identifier**
- **Trade name:** Hi-Tech Tint Pack
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Progressive Fastening Systems Inc.  
 Hi-Tech Systems  
 1190 N. Del Rio Place  
 Ontario, CA 91764
- **Information department:** Product Safety Department
- **Emergency telephone number:**

Phone (909) 945-5530  
 Fax (909) 945-3009  
[www.hitechpolyurea.com](http://www.hitechpolyurea.com)

INFOTRAC (24 HOURS) USA 1-800-535-5053 / INTERNATIONAL 1-352-323-3500 USE ONLY FOR HAZARDOUS MATERIALS ( OR DANGEROUS GOODS) INCIDENT - SPILLS, LEAKS, FIRE, EXPOSURE, OR ACCIDENT CN109479

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Self-heat. 2 H252 Self-heating in large quantities; may catch fire.



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

Carc. 1B H350 May cause cancer.

Repr. 1 H360 May damage fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS06



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
 titanium dioxide  
 Lead sulfochromate yellow  
 Carbon black
- **Hazard statements**  
 Self-heating in large quantities; may catch fire.

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*Toxic if inhaled.**May cause cancer.**May damage fertility or the unborn child.**May cause damage to organs through prolonged or repeated exposure.***· Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep cool. Protect from sunlight.**Do not breathe dust/fume/gas/mist/vapors/spray.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**IF exposed or concerned: Get medical advice/attention.**Specific treatment (see on this label).**Get medical advice/attention if you feel unwell.**Store in a well-ventilated place. Keep container tightly closed.**Store locked up.**Maintain air gap between stacks/pallets.**Store bulk masses greater than .5 lbs at temperatures not exceeding 80°F.**Store away from other materials.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· Classification system:****· NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 4

Reactivity = 0

**· HMIS-ratings (scale 0 - 4)**

HEALTH \*1 Health = \*1

FIRE 4 Fire = 4

REACTIVITY 0 Reactivity = 0

**· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

**· Chemical characterization: Mixtures****· Description:** Mixture of the substances listed below with nonhazardous additions.**· Dangerous components:**

13463-67-7	titanium dioxide ⚠ Carc. 2, H351	>50-≤100%
1333-86-4	Carbon black ⚠ Self-heat. 2, H252; ⚠ Carc. 2, H351	>2.5-<10%
1344-37-2	Lead sulfochromate yellow ⚠ Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373	>2.5-<10%

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### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if victim is unconscious or having convulsions. If symptoms persist consult doctor.

- **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:** water spray, dry powder, carbon dioxide, foam

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

Hazards during fire-fighting:

nitrous gases, fumes/smoke, isocyanate, vapour

- **Advice for firefighters**

- **Protective equipment:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear

- **Additional information**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Dispose of the collected material according to regulations.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **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.

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### · Protective Action Criteria for Chemicals

· PAC-1:		
13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
· PAC-2:		
13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
1333-86-4	Carbon black	99 mg/m <sup>3</sup>
· PAC-3:		
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
1333-86-4	Carbon black	590 mg/m <sup>3</sup>

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Ensure thorough ventilation of stores and work area. Protect against moisture.

Ensure good ventilation/exhaustion at the workplace. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Open and handle receptacle with care.

Prevent formation of aerosols.

#### · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

#### · Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids and bases.

#### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Carbon Steel, (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE)

##### · Information about storage in one common storage facility: Not required.

##### · Further information about storage conditions: Keep receptacle tightly sealed.

##### · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

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

### · Control parameters

· Components with limit values that require monitoring at the workplace:	
<b>1333-86-4 Carbon black</b>	
PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction

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**1344-37-2 Lead sulfochromate yellow**

PEL	Long-term value: 0.005* mg/m <sup>3</sup> Ceiling limit value: 0.1** mg/m <sup>3</sup> *as Cr(VI) **as CrO <sub>3</sub> ; see 29 CFR 1910.1026
REL	Long-term value: 0.0002 mg/m <sup>3</sup> as Cr; See Pocket Guide Apps. A and C
TLV	Short-term value: 0.0005 mg/m <sup>3</sup> Long-term value: 0.0002 mg/m <sup>3</sup> as Cr; inhalable, DSEN, RSEN

· **Ingredients with biological limit values:****1344-37-2 Lead sulfochromate yellow**

BEI	25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)
	10 µg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

· <b>Form:</b>	Liquid
· <b>Color:</b>	Various colors
· <b>Odor:</b>	Mild odor
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	>2,500 °C (>4,532 °F)

· **Flash point:** Not applicable.· **Flammability (solid, gaseous):** Not applicable.· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Not determined.· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure:** Not determined.· **Density at 20 °C (68 °F):** ~3.69474~3.71228 g/cm<sup>3</sup> (~30.83261~30.97898 lbs/gal)· **Bulk density:** ~682~697 kg/m<sup>3</sup>· **Relative density:** Not determined.· **Vapor density:** Not determined.· **Evaporation rate:** Not determined.· **Solubility in / Miscibility with**· **Water:** Not miscible or difficult to mix.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

· **Solvent content:**

· **VOC content:** 0.00 %  
0.0 g/l / 0.00 lb/gl

· **Solids content:** 100.0 %

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· **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.  
Exothermic reaction. Reacts with strong acids and alkalies. Reacts with oxidizing agents.
- **Conditions to avoid** Avoid moisture
- **Incompatible materials:**  
acids, amines, alcohols, water, Alkalines, strong bases, Products that react with isocyanates
- **Hazardous decomposition products:**  
aromatic isocyanates, gases/vapours  
carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

## 11 Toxicological information

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

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

**ATE (Acute Toxicity Estimate)**

Inhalative	LC50/4 h	>7.85 mg/l (rat)
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**13463-67-7 titanium dioxide**

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

**1333-86-4 Carbon black**

Oral	LD50	10,000 mg/kg (rat)
------	------	--------------------

**1344-37-2 Lead sulfochromate yellow**

Oral	LD50	>10,000 mg/kg (rat)
------	------	---------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Toxic
- **Carcinogenic categories**

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

13463-67-7	titanium dioxide	2B
1333-86-4	Carbon black	2B
1344-37-2	Lead sulfochromate yellow	I

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· <b>NTP (National Toxicology Program)</b>		
1344-37-2	Lead sulfochromate yellow	K
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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:**  
*Water hazard class 2 (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.*
- **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:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substance/product into sewer system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                  |  |
|----------------------------------|--|
| · <b>UN-Number</b>               |  |
| · <b>DOT, IMDG, IATA</b>         | UN3184   |
| · <b>UN proper shipping name</b> |  |
| · <b>DOT</b>                     | Self-heating liquid, toxic, organic, n.o.s. (Carbon, activated)  |
| · <b>IMDG</b>                    | SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S. (CARBON, ACTIVATED, Lead sulfochromate yellow), MARINE POLLUTANT |
| · <b>IATA</b>                    | SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S. (CARBON, ACTIVATED)  |

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· **Transport hazard class(es)**· **DOT**· **Class**

4.2 Substances liable to spontaneous combustion

· **Label**

4.2, 6.1

· **IMDG**· **Class**

4.2 Substances liable to spontaneous combustion

· **Label**

4.2/6.1

· **IATA**· **Class**

4.2 Substances liable to spontaneous combustion

· **Label**

4.2 (6.1)

· **Packing group**· **DOT, IMDG, IATA**

III

· **Environmental hazards:**

Product contains environmentally hazardous substances: Lead sulfochromate yellow

· **Marine pollutant:**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Substances liable to spontaneous combustion

· **Danger code (Kemler):**

36

· **EMS Number:**

F-A,S-J

· **Stowage Category**

E

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **DOT**· **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **IMDG**· **Limited quantities (LQ)**

0

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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· **UN "Model Regulation":** UN 3184 SELF-HEATING LIQUID, TOXIC, ORGANIC, N.O.S. (CARBON, ACTIVATED), 4.2 (6.1), III, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

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

None of the ingredients is listed.

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

1344-37-2 | Lead sulfochromate yellow

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

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

All ingredients are listed.

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

1344-37-2 | Lead sulfochromate yellow

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

1344-37-2 | Lead sulfochromate yellow

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

1344-37-2 | Lead sulfochromate yellow

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1344-37-2 | Lead sulfochromate yellow | A(inh), D(oral), K/L(inh), CBD(oral)

· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7 | titanium dioxide | A4

1333-86-4 | Carbon black | A4

1344-37-2 | Lead sulfochromate yellow | A1

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

All ingredients are listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02   GHS06   GHS08

- **Signal word** Danger

· **Hazard-determining components of labeling:**

titanium dioxide

Lead sulfochromate yellow

Carbon black

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· **Hazard statements**

- Self-heating in large quantities; may catch fire.
- Toxic if inhaled.
- May cause cancer.
- May damage fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep cool. Protect from sunlight.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF exposed or concerned: Get medical advice/attention.
- Specific treatment (see on this label).
- Get medical advice/attention if you feel unwell.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Maintain air gap between stacks/pallets.
- Store bulk masses greater than .5 lbs at temperatures not exceeding 80°F.
- Store away from other materials.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

- Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

- Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
- Exceptions can be made by the authorities in certain cases.

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

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Safety Department

· **Date of preparation / last revision** 04/09/2018 / 1

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- 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)
- VOC: Volatile Organic Compounds (USA, EU)
- 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

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*OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Self-heat. 2: Self-heating substances and mixtures – Category 2**Acute Tox. 3: Acute toxicity – Category 3**Carc. 1B: Carcinogenicity – Category 1B**Carc. 2: Carcinogenicity – Category 2**Repr. 1: Reproductive toxicity – Category 1**Repr. 1A: Reproductive toxicity – Category 1A**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2***. \* Data compared to the previous version altered.**

US