

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 ProMender Flex "B"
- **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

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**



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Flam. Liq. 4 H227 Combustible liquid.

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



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Distillates (petroleum), hydrotreated light
Solvent naphtha (petroleum) heavy aliph.
- **Hazard statements**
Combustible liquid.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.
- **Precautionary statements**
Keep away from flames and hot surfaces. – No smoking.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.

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Do NOT induce vomiting.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	2	Fire = 2
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:**

64742-47-8	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	>10-≤25%
64742-96-7	Solvent naphtha (petroleum) heavy aliph. ⚠ Asp. Tox. 1, H304	>10-≤25%
1305-78-8	calcium oxide ⚠ Eye Dam. 1, H318	≥1-≤2.5%

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Drink 200-300ml of water

· **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.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** water spray, dry powder, carbon dioxide, foam
- **Special hazards arising from the substance or mixture**
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**
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.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	34 mg/m ³
1305-78-8	calcium oxide	6 mg/m ³

- **PAC-2:**

102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	370 mg/m ³
1305-78-8	calcium oxide	110 mg/m ³

- **PAC-3:**

102-60-3	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	2,200 mg/m ³
1305-78-8	calcium oxide	660 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure thorough ventilation of stores and work area. Protect against moisture.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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.

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· **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:**

1305-78-8 calcium oxide

PEL Long-term value: 5 mg/m³REL Long-term value: 2 mg/m³TLV Long-term value: 2 mg/m³· **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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.· **Protection of hands:**

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.

· **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:****Form:**

Liquid

Color:

Clear to slight Cloudy

· **Odor:**

slight odour

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· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	200 °C (392 °F)
· Flash point:	61 °C (141.8 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	210 °C (410 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	0.5 Vol %
Upper:	6.5 Vol %
· Vapor pressure at 20 °C (68 °F):	2 hPa (1.5 mm Hg)
· Density at 20 °C (68 °F):	0.99576 g/cm ³ (8.30962 lbs/gal)
· 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:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gl
Solids content:	78.9 %
· 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**
Temperature < 0 degrees Celsius
Avoid moisture

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- **Incompatible materials:**
acids, oxidizing agents, isocyanates
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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

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 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

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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

· UN-Number	<i>not regulated</i>
· DOT, ADN, IMDG, IATA	<i>not regulated</i>
· UN proper shipping name	
· DOT, ADN, IMDG, IATA	<i>not regulated</i>
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	<i>not regulated</i>
· Packing group	
· DOT, IMDG, IATA	<i>not regulated</i>
· Environmental hazards:	<i>Not applicable.</i>
· Special precautions for user	<i>Not applicable.</i>
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	<i>Not applicable.</i>
· UN "Model Regulation":	<i>not regulated</i>

15 Regulatory information

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

· Section 355 (extremely hazardous substances):	<i>None of the ingredients is listed.</i>
· Section 313 (Specific toxic chemical listings):	<i>None of the ingredients is listed.</i>
· TSCA (Toxic Substances Control Act):	<i>All ingredients are listed.</i>
· Proposition 65	
· Chemicals known to cause cancer:	<i>None of the ingredients is listed.</i>
· Chemicals known to cause reproductive toxicity for females:	<i>None of the ingredients is listed.</i>
· Chemicals known to cause reproductive toxicity for males:	<i>None of the ingredients is listed.</i>
· Chemicals known to cause developmental toxicity:	<i>None of the ingredients is listed.</i>

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- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** *Danger*

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

*Distillates (petroleum), hydrotreated light
Solvent naphtha (petroleum) heavy aliph.*

- **Hazard statements**

*Combustible liquid.
Causes serious eye irritation.
May be fatal if swallowed and enters airways.*

- **Precautionary statements**

*Keep away from flames and hot surfaces. – No smoking.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Do NOT induce vomiting.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **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 / 2

- **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*

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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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Liq. 4: Flammable liquids – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

US