Printing date 04/09/2018

Reviewed on 03/30/2018

## **1** Identification

- · Product identifier
- Trade name: <u>Hi Tech Spall RX2 A</u>
- $\cdot$  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

Phone (909) 945-5530 Fax (909) 945-3009 www.hitechpolyurea.com

· Information department: Product Safety Department

· Emergency telephone number:

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

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351	Suspected of causing cancer.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
GH	1507	

GHS07

Acute Tox. 4	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory 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* 



· Signal word Danger

• *Hazard-determining components of labeling:* diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene

(Contd. on page 2)

US

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# Trade name: Hi Tech Spall RX2 A

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If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep cool. 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) Health = 2 Fire = 2 Reactivity = 0 • HMIS-ratings (scale 0 - 4) HEALTH P Health = *2 Fire = 2 Reactivity = 0		
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## Safety Data Sheet acc. to OSHA HCS

Printing date 04/09/2018

Reviewed on 03/30/2018

Trade name: Hi Tech Spall RX2 A

- · 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 o	components:	
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	>25-≤50%
	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; (1) Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
101-68-8	4,4'-methylenediphenyl diisocyanate	>25-≤50%
	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
64742-94-5	Solvent naphtha (petroleum), heavy arom.	>25-≤50%
	🚸 Asp. Tox. 1, H304	
91-20-3	naphthalene	≥0.1-≤2.5%
	🗞 Carc. 2, H351; 🚸 Acute Tox. 4, H302; Flam. Liq. 4, H227	

#### 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.

• After inhalation:

Supply fresh air and to be sure call for a 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:

Materials containing MDI may react with the moisture in the eye forming a thick material that is difficult to remove.

Rinse opened eye for 15 minutes under running water. If symptoms persist, 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

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#### Trade name: Hi Tech Spall RX2 A

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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 equippped with self-contained breathing apparatus and	d turn-out gear
· Additional information	
At temperatures greater than 400° F, polymeric MDI can polymerize and de	
build-up in closed containers. Explosive rupture is possible. Water contami Do not reseal contaminated containers.	nation will produce carbon dioxide.
Do noi reseat contaminatea containers.	
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. • <b>Protective Action Criteria for Chemicals</b>	
· Protective Action Cruenta for Chemicais	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	0.15 mg/m <sup>3</sup>
101-68-8 4,4'-methylenediphenyl diisocyanate	$0.15 \text{ mg/m}^{-1}$ $0.45 \text{ mg/m}^{-3}$
91-20-3 naphthalene	15 ppm
• PAC-2:	10 ppm
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	3.6 mg/m <sup>3</sup>
101-68-8 4,4'-methylenediphenyl diisocyanate	5 mg/m <sup>3</sup>
91-20-3 naphthalene	83 ppm
· PAC-3:	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	22 mg/m <sup>3</sup>
101-68-8 4,4'-methylenediphenyl diisocyanate	55 mg/m <sup>3</sup>
91-20-3 naphthalene	500 ppm
	· · · · · · · · · · · · · · · · · · ·

# 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 busting 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.

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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 friom acids and bases.

• *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: When stored between 60- 80 ° F in sealed containers, typical shelf life is 12 months from the date of manufacture. 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:

MDI has a low vapor pressure at room temperature. Monitoring is required to determine engineering controls.

#### · Control parameters

· Components with limit values that require monitoring at the workplace:
101-68-8 4,4'-methylenediphenyl diisocyanate
PEL Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm
REL Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.2* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV Long-term value: 0.051 mg/m <sup>3</sup> , 0.005 ppm
91-20-3 naphthalene
PEL Long-term value: 50 mg/m³, 10 ppm
REL Short-term value: 75 mg/m³, 15 ppm Long-term value: 50 mg/m³, 10 ppm
TLV Long-term value: 52 mg/m³, 10 ppm Skin; BEI
• 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.
Avoid contact with the eyes and skin.
• 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.
(Contd. on page 6)

<sup>·</sup> Storage:

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# Safety Data Sheet acc. to OSHA HCS

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Trade name: Hi Tech Spall RX2 A

· 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  $\cdot$  *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.

 $\cdot$  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:

Face protection



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information		
Appearance:	<b>y</b> · · · <b>y</b>	
Form:	Liquid	
Color:	Non-pigmented liquid	
Odor:	Musty Not determined.	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	207.8 °C (406 °F)	
Flash point:	66 °C (150.8 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	400 °C (752 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	

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		(Contd. of page
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not Soluble in water; REACTS with water	
Partition coefficient (n-octand	p <b>l/water):</b> 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:	97.7 %	
• 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 Moisture and/or water. High temperatures, sparks, flame and temperature above 350 °F • Incompatible materials:

*Water; strong bases; alcohols; amines; metal compounds;* 

acids, amines, alcohols, water, Alkalines, strong bases, Products that react with isocyantes

· Hazardous decomposition products:

By fire or excessive heat: carbon monoxide, carbon dioxide, oxides of nitrogen, traces of hydrogen cyanide, ammonia and MDI vapors.

aromatic isocyanates, gases/vapours

carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

• Additional information:

May occur with incompatible reactants, especially strong bases, water or temperatures over 320°F (50°C).

#### **11 Toxicological information**

#### · Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

 Oral
 LD50
 6,080 mg/kg

 Dermal
 LD50
 217,495 mg/kg (rat)

 Inhalative
 LC50/4 h
 15.3 mg/l

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#### Trade name: Hi Tech Spall RX2 A

101-68-8	4,4'-meth	nylenediphenyl diisocyanate	
Oral	LD50	2,200 mg/kg (mouse)	
91-20-3 n	naphthale	ne	
Oral	LD50	490 mg/kg (rat)	
Dermal	LD50	5,000 mg/kg (rat)	
on the ey Sensitizat	e: Irritatir tion: tion possib	at to skin and mucous membranes. ng effect. ble through inhalation.	
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Additiona The produ- Harmful Irritant Carcinog IARC (In 9016-87- 101-68- 91-20- NTP (Na	al toxicolo uct shows eenic categ ternationa 9 dipheny 8 4,4'-me 3 naphtha tional Tox	pgical information: the following dangers according to internally approved calculation me gories al Agency for Research on Cancer) ylmethanediisocyanate,isomeres and homologues thylenediphenyl diisocyanate alene xicology Program)	3 3 2
Additiona The prod Harmful Irritant Carcinog IARC (In 9016-87- 101-68- 91-20- NTP (Na	al toxicolo uct shows eenic categ tternation 9 dipheny 8 4,4'-me 3 naphtha	pgical information: the following dangers according to internally approved calculation me gories al Agency for Research on Cancer) ylmethanediisocyanate,isomeres and homologues thylenediphenyl diisocyanate alene xicology Program)	3
Additiona The prod Harmful Irritant Carcinog IARC (In 9016-87- 101-68- 91-20- NTP (Na 91-20-3	al toxicolo uct shows eenic categ tternation 9 dipheny 8 4,4'-me 3 naphtha tional Tox naphthale	pgical information: the following dangers according to internally approved calculation me gories al Agency for Research on Cancer) ylmethanediisocyanate,isomeres and homologues thylenediphenyl diisocyanate alene xicology Program)	3 3 2

# **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.

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#### **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.

UN-Number		
DOT, ADN, IMDG, IATA	not regulated	
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
· Class	not regulated	
Packing group		
· DOT, IMDG, IATA	not regulated	
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'':	not regulated	

# **15 Regulatory information**

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

Section 355 (extreme	ely hazard	ous sul	bstances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

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

91-20-3 naphthalene

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

91-20-3 naphthalene

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	(Contd. of pag
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	CDD
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	CBD
101-68-8 4,4'-methylenediphenyl diisocyanate	D, CB
91-20-3 naphthalene	С, СВ
TLV (Threshold Limit Value established by ACGIH)	
91-20-3 naphthalene	A
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 Harr Hazard pictograms	monized System (GHS)
GHS07 GHS08	
Hazard-determining components of labeling:	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statements	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statements Obtain special instructions before use.	
Hazard-determining components of labeling:         diphenylmethanediisocyanate, isomeres and homologues         4,4'-methylenediphenyl diisocyanate         naphthalene         Hazard statements         Combustible liquid.         Harmful if inhaled.         Causes skin irritation.         Causes serious eye irritation.         May cause allergy or asthma symptoms or breathing difficulties if inhaled.         May cause an allergic skin reaction.         Suspected of causing cancer.         May cause respiratory irritation.         May cause damage to organs through prolonged or repeated exposure.         May be fatal if swallowed and enters airways.         Precautionary statements         Obtain special instructions before use.         Do not handle until all safety precautions have been read and understood.	
Hazard-determining components of labeling:         diphenylmethanediisocyanate, isomeres and homologues         4,4'-methylenediphenyl diisocyanate         naphthalene         Hazard statements         Combustible liquid.         Harmful if inhaled.         Causes skin irritation.         Causes serious eye irritation.         May cause allergy or asthma symptoms or breathing difficulties if inhaled.         May cause an allergic skin reaction.         Suspected of causing cancer.         May cause respiratory irritation.         May cause damage to organs through prolonged or repeated exposure.         May be fatal if swallowed and enters airways.         Precautionary statements         Obtain special instructions before use.         Do not handle until all safety precautions have been read and understood.         Keep away from flames and hot surfaces. – No smoking.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.	
Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling.	
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Hazard-determining components of labeling: diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate naphthalene Hazard statements Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace.	
<ul> <li>4,4'-methylenediphenyl diisocyanate</li> <li>naphthalene</li> <li>Hazard statements</li> <li>Combustible liquid.</li> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of causing cancer.</li> <li>May cause respiratory irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Precautionary statements</li> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Keep away from flames and hot surfaces. – No smoking.</li> <li>Do not breathe dust/fume/gas/mist/vapors/spray.</li> <li>Wash thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> </ul>	

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If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Call a poison center/doctor.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
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

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· 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
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Flam. Liq. 4: Flammable liquids – Category 4
 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
 Resp. Sens. 1: Respiratory sensitisation - Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Carc. 2: Carcinogenicity - Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
                                                                                                                  (Contd. on page 12)
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# Trade name: Hi Tech Spall RX2 A

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 • \* **Data compared to the previous version altered.**  (Contd. of page 11)

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## **1** Identification

- · Product identifier
- · Trade name: Hi-Tech Spall RX2 B
- $\cdot$  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

Phone (909) 945-5530 Fax (909) 945-3009 www.hitechpolyurea.com

· Information department: Product Safety Department

· Emergency telephone number:

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

GH.

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

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

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* 



· Signal word Danger

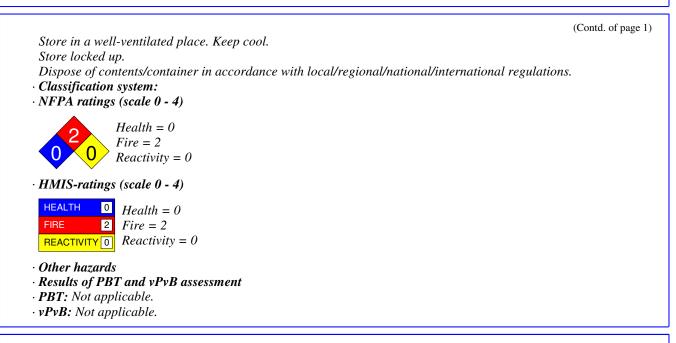
· Hazard-determining components of labeling: Solvent naphtha (petroleum), heavy arom. naphthalene · Hazard statements Combustible liquid. Suspected of causing cancer. May be fatal if swallowed and enters airways. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. *Keep away from flames and hot surfaces. – No smoking.* Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray.

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Trade name: Hi-Tech Spall RX2 B



### **3** Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

 • Dangerous components:
 50-≤100%

 64742-94-5
 Solvent naphtha (petroleum), heavy arom.
 >50-≤100%

 ④ Asp. Tox. 1, H304
 >2.5-<10%</td>

 91-20-3
 naphthalene
 >2.5-<10%</td>

 ④ Carc. 2, H351; ① Acute Tox. 4, H302; Flam. Liq. 4, H227
 >

# 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 at least 15 minutes under running water.
- 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:

Dry powder, foam, carbon dioxide. Use cold water spray to cool fire exposed containers to minimize risk of rupture. A solid stream of water directed into hot buring liquid could cause frothing.

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#### Trade name: Hi-Tech Spall RX2 B

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: Prevent seepage into sewage system, workpits and cellars. • 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<sup>3</sup> 91-20-3 naphthalene 15 ppm · PAC-2: 102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol 370 mg/m<sup>3</sup> 91-20-3 naphthalene 83 ppm · PAC-3: 102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol  $2,200 \text{ mg/m}^3$ 91-20-3 naphthalene 500 ppm

#### 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 friom 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:
- When stored between 60-80°F in sealed containers, typical shelf life is 12 months from the date of manufacture. • Further information about storage conditions: Keep receptacle tightly sealed.

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Trade name: Hi-Tech Spall RX2 B

• 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:

#### 91-20-3 naphthalene

PEL Long-term value: 50 mg/m<sup>3</sup>, 10 ppm

- REL Short-term value: 75 mg/m<sup>3</sup>, 15 ppm
  - Long-term value: 50 mg/m<sup>3</sup>, 10 ppm

TLV Long-term value: 52 mg/m<sup>3</sup>, 10 ppm

# Skin; BEI

• Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

- · Personal protective equipment:
- $\cdot$  General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- · 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  $\cdot$  **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: Goggles recommended during refilling.
- Body protection: Protective work clothing

Information on basic physical and chemical properties General Information		
Appearance:	Non-Pigmented liquid	
Form:	Liquid	
Color:	Non-pigmented liquid	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	

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		(Contd. of page 4)
Boiling point/Boiling range:	Undetermined.	
· Flash point:	79 °C (174.2 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	540 °C (1,004 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:	Not determined.	
· 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/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gl	
• 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 isocyantes
- *Hazardous decomposition products:* aromatic isocyanates, gases/vapours carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

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#### Trade name: Hi-Tech Spall RX2 B

(Contd. of page 5)

2B

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# **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

 Oral
 LD50
 8,190 mg/kg (rat)

 Dermal
 LD50
 83,572 mg/kg (rat)

#### 91-20-3 naphthalene

 Oral
 LD50
 490 mg/kg (rat)

 Dermal
 LD50
 5,000 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:

#### · Carcinogenic categories

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

#### 91-20-3 naphthalene

#### · NTP (National Toxicology Program)

91-20-3 naphthalene

#### · 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: Not known to be hazardous to 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:

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.

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Reviewed on 03/30/2018

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Trade name: Hi-Tech Spall RX2 B

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT	not regulated
IMDG, IATA	UN3082
UN proper shipping name DOT	not recorded
IMDG	not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (NAPHTHALENE, CRUDE), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI
	N.O.S. (NAPHTHALENE, CRUDE)
Transport hazard class(es)	
DOT	
Class	not regulated
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	not regulated
IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substance
	naphthalene
Marine pollutant:	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	90 5 1 6 5
EMS Number:	F-A,S-F
Stowage Category	A
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
IMDG	
Limited quantities (LQ)	5L
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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (NAPHTHALENE, CRUDE), 9, III

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

 $\cdot$  Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

91-20-3 naphthalene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

91-20-3 naphthalene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

91-20-3 naphthalene

C, CBD

A4

· TLV (Threshold Limit Value established by ACGIH)

91-20-3 naphthalene

· 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* 



· Signal word Danger

 Hazard-determining components of labeling: Solvent naphtha (petroleum), heavy arom. naphthalene
 Hazard statements

Combustible liquid. Suspected of causing cancer. May be fatal if swallowed and enters airways.

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US

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Reviewed on 03/30/2018

#### Trade name: Hi-Tech Spall RX2 B

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Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Do NOT induce vomiting.
IF exposed or concerned: 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 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 OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 4: Acute toxicity – Category 4 Carc. 2: Carcinogenicity – Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 • \* Data compared to the previous version altered.