Printing date 04/09/2018 Reviewed on 04/03/2018

1 Identification

· Product identifier

· Trade name: Hi-Tech Spall FX2 "A"

· 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.

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause 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.



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





GHS07

GHS08

· Signal word Danger

- · Hazard-determining components of labeling:
- 4,4'-methylenediphenyl diisocyanate

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Trade name: Hi-Tech Spall FX2 "A"

(Contd. of page 1)

benzene

diphenylmethanediisocyanate,isomeres and homologues methylenediphenyl diisocyanate

· 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.

May cause genetic defects.

May cause 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.

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.

Wear protective gloves/protective clothing/eye protection/face protection.

 $[In\ case\ of\ inadequate\ ventilation]\ wear\ respiratory\ protection.$

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.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 2Reactivity = 0

(Contd. on page 3)

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Hi-Tech Spall FX2 "A"

· HMIS-ratings (scale 0 - 4)

HEALTH *2 Health = *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:	
101-68-8	4,4'-methylenediphenyl diisocyanate 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	>50-≤100%
64742-94-5	Solvent naphtha (petroleum), heavy arom. Asp. Tox. 1, H304	>10-≤25%
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues 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	>10-≤25%
26447-40-5	methylenediphenyl diisocyanate 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	≥1-≤2.5%
91-20-3	naphthalene ③ Carc. 2, H351; ① Acute Tox. 4, H302; Flam. Liq. 4, H227	≥0.1-≤2.5%
71-43-2	benzene ♠ Flam. Liq. 2, H225; ♠ Acute Tox. 1, H310; ♠ Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304; ♠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≥0.1-≤2.5%

4 First-aid measures

- · Description of first aid measures
- · General information:

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: 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.

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· 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

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 turn-out gear

· Additional information Cool endangered receptacles with water spray.

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

101-68-8	4,4'-methylenediphenyl diisocyanate	0.45 mg/m
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	0.15 mg/m
26447-40-5	methylenediphenyl diisocyanate	29 mg/m³
91-20-3	naphthalene	15 ppm
71-43-2	benzene	
<i>PAC-2:</i>		
101-68-8	4,4'-methylenediphenyl diisocyanate	5 mg/m ³
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	3.6 mg/m
26447-40-5	methylenediphenyl diisocyanate	40 mg/m ²
91-20-3	naphthalene	83 ppm
71-43-2	benzene	800 ppm
PAC-3:		·
101-68-8	4,4'-methylenediphenyl diisocyanate	55 mg/m³
9016-87-9	016-87-9 diphenylmethanediisocyanate,isomeres and homologues	
26447-40-5	methylenediphenyl diisocyanate	240 mg/m ⁻
91-20-3	naphthalene	500 ppm

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71-43-2 benzene (Contd. of page 4)
4000* ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling

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.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. 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 l	limit valu	s that r	eauire	monitoring	at the	worknlace.
Components							

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

PEL Ceiling limit value: 0.2 mg/m³, 0.02 ppm

REL Long-term value: 0.05 mg/m³, 0.005 ppm

Ceiling limit value: 0.2* mg/m³, 0.02* ppm

*10-min

TLV Long-term value: 0.051 mg/m³, 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

71-43-2 benzene

PEL Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 1* ppm

*table Z-2 for exclusions in 29CFR1910.1028(d)

REL Short-term value: 1 ppm

Long-term value: 0.1 ppm See Pocket Guide App. A

TLV Short-term value: 8 mg/m³, 2.5 ppm Long-term value: 1.6 mg/m³, 0.5 ppm

Skin; BEI

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· Ingredients with biological limit values:

71-43-2 benzene

BEI 25 μg/g creatinine

Medium: urine

Time: end of shift Parameter

Parameter: S-Phenylmercapturic acid (background

500 µg/g creatinine Medium: urine Time: end of shift

Parameter: t,t-Muconic acid (background)

- · 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.

· Protection of hands:

Neoprene gloves

Rubber gloves

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.



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.

· Eye protection:

Face protection



Tightly sealed goggles

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· Body protection: Protective work clothing

(Contd. of page 6)

Information on basic physical and	chemical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Brown	
Odor:	of hydrocarbons	
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:	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.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.10959 g/cm³ (9.25953 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/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.7 %	
VOC content:	0.75 %	
	8.3 g/l / 0.07 lb/gl	
Solids content:	97.0 %	
Other information	No further relevant information available.	

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(Contd. of page 7)

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

Reacts with alcohols.

Reacts with amines.

Exothermic reaction.

Danger of polymerization.

- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

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

· Hazardous decomposition products:

Carbon dioxide

Carbon monoxide

Nitrogen oxides

Hydrogen cyanide (prussic acid)

11 Toxicological information

- · Information on toxicological effects

· Acute toxi	city:	
· LD/LC50	values that	t are relevant for classification:
ATE (Acu	te Toxicity	Estimate)
Oral	LD50	3,332 mg/kg
Dermal	LD50	223,334 mg/kg (rat)
Inhalative	LC50/4 h	15.8 mg/l
101-68-8 4	4,4'-methyl	lenediphenyl diisocyanate
Oral	LD50	2,200 mg/kg (mouse)
91-20-3 no	aphthalene	
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
71-43-2 be	enzene	
Oral	LD50	4,894 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.

48 mg/kg (mouse)

· on the eye: Irritating effect.

LD50

· Sensitization:

Dermal

Sensitization possible through inhalation.

Inhalative LC50/4 h 9,980 mg/l (mouse)

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

The product can cause inheritable damage.

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(Contd. of page 8) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 101-68-8 4,4'-methylenediphenyl diisocyanate 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues 3 91-20-3 naphthalene 2B71-43-2 benzene · NTP (National Toxicology Program) 91-20-3 naphthalene R 71-43-2 benzene K · OSHA-Ca (Occupational Safety & Health Administration) 71-43-2 benzene

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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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

- · UN-Number
- · DOT, ADN, IMDG, IATA not regulated
- · UN proper shipping name
- · DOT, ADN, IMDG, IATA not regulated

(Contd. on page 10)

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Trade name: Hi-Tech Spall FX2 "A"

		(Contd. of page 9
· 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 MARPOL73/78 and the IBC Code	II of Not applicable.	
· UN ''Model Regulation'':	not regulated	

15 Regulatory information

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

None of the ingredients is listed.

- · Section 313 (Specific toxic chemical listings):
 - 101-68-8 4,4'-methylenediphenyl diisocyanate
- 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues
 - 91-20-3 naphthalene
 - 71-43-2 benzene
- · TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

91-20-3 naphthalene

71-43-2 benzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- · Chemicals known to cause reproductive toxicity for males:
- 71-43-2 benzene
- · Chemicals known to cause developmental toxicity:

71-43-2 benzene

· Carcinogenic categories

· EPA (Environmental Protection Agency)				
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD		
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	CBD		
91-20-3	naphthalene	C, CBD		
71-43-2	benzene	A, K/L		

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· TLV (Th	reshold Limit Value established by ACGIH)	
91-20-3	naphthalene	A4
71-43-2	benzene	<i>A1</i>

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

71-43-2 benzene

- · 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:

4,4'-methylenediphenyl diisocyanate

benzen

diphenylmethanediisocyanate,isomeres and homologues

methylenediphenyl diisocyanate

· 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.

May cause genetic defects.

May cause 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.

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.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

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.

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(Contd. of page 11)

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.

- · 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 / 3
- · 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

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 1: Acute toxicity - Category 1

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

Muta. 1B: Germ cell mutagenicity - Category 1B

Carc. 1A: Carcinogenicity - Category 1A

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 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.