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## Safety data sheet Complying with Israeli Safety at Work Regulations (Safety Data Sheet, Classification, Packaging, Labelling and Marking of Packaging) - 1998 and SI 2302

Printing date 31.05.2022

Version number 1

Revision: 31.05.2022

## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

• Trade name: <u>HARDNER FOR P.U FOR JETAIRCRAFT MIL -PRF 85285</u>

· Article number: 392-803

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture Industrial Coating

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

TAMBOUR LTD. Meir Ariel st. 6 Netanya 42504, Israel Phone: +972-9-8925555 www.tambour.co.il

#### · Further information obtainable from:

*Phone:* +972(4)985-3795 *e-mail:* motiA@tambour.co.il • **1.4 Emergency telephone number:** Tambour call center: +972-74-7545688 or \*6477

## **SECTION 2: Hazards identification**

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms GHS02, GHS07

· Signal word Danger

• *Hazard-determining components of labelling:* hexamthylene -1,6-diisocyanate homopolymer 4-isocyanatosulphonyltoluene

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hexamethylene-di-isocyanate	
· Hazard statements	
H225 Highly flammable liquid and vapour.	
H317 May cause an allergic skin reaction.	
H412 Harmful to aquatic life with long lasting effects.	
· Precautionary statements	
<i>P101</i> If medical advice is needed, have product container or label at hand.	
P102 Keep out of reach of children.	
P103 Read carefully and follow all instructions.	
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition source	es. No
smoking.	
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P280 Wear protective gloves/protective clothing/eye protection/face protection/h	earing
protection.	0
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse ski	in with
water [or shower].	
P501 Dispose of contents/container in accordance with local/regional/national/internet	ational
regulations.	
· 2.3 Other hazards	
· Results of PBT and vPvB assessment	

· **PBT:** Not applicable.

• vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients** 

· 3.2 Chemical characterisation: Mixtures

 $\cdot \textit{Description: Mixture of substances listed below with nonhazardous additions.}$ 

CAS: 28182-81-2	hexamthylene -1,6-diisocyanate homopolymer	50-75%
	🚸 Skin Sens. 1, H317	
CAS: 540-88-5	tert-butyl acetate	25-50%
EINECS: 208-760-7	🚸 Flam. Liq. 2, H225	
CAS: 123-86-4	n-butyl acetate	2.5-10%
EINECS: 204-658-1	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
	Solvent naphtha (petroleum), light arom.	2.5-10%
EC number: 918-668-5	� Flam. Liq. 3, H226; � Asp. Tox. 1, H304; � Aquatic Chronic 2, H411; � Skin Irrit. 2, H315; STOT SE 3, H335-H336	
CAS: 4083-64-1	4-isocyanatosulphonyltoluene	<1%
EINECS: 223-810-8	Resp. Sens. 1, H334; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	



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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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# **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- 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.
- Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

• Additional information about design of technical facilities: No further data; see item 7.

• Ingredients with lim	it values that require monitoring at the workplace:	
540-88-5 tert-butyl a	icetate	
WEL (Great Britain)	Short-term value: 1210 mg/m <sup>3</sup> , 250 ppm	
	Long-term value: 966 mg/m³, 200 ppm	
123-86-4 n-butyl ace	etate	
WEL (Great Britain)	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm	
	Long-term value: 724 mg/m³, 150 ppm	
OELV (Israel)	Long-term value: 150 ppm	
4083-64-1 4-isocyan	atosulphonyltoluene	
WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup>	
	Long-term value: 0.02 mg/m <sup>3</sup>	
	Sen; as -NCO	
• Additional informati	ion: The lists valid during the making were used as basis.	
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<sup>· 8.1</sup> Control parameters



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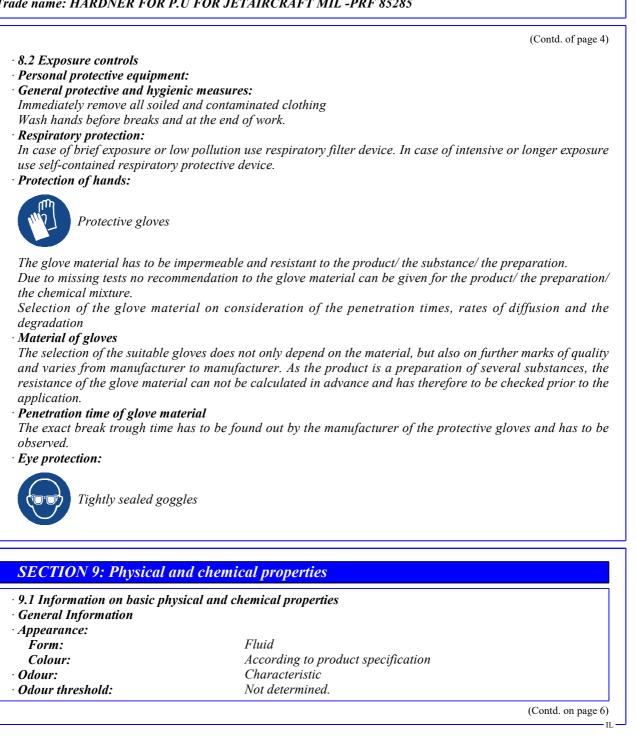
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· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/freezing point: Initial boiling point and boiling range</li> </ul>	Undetermined. e: 79-80.5 °C
· Flash point:	-4 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	514 °C
· Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	41 hPa
· Density: · Relative density · Vapour density · Evaporation rate	Not determined. Not determined. Not determined. Not determined.
• Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents:	40.8 %
Solids content:	0.4 %
· 9.2 Other information	No further relevant information available.

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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• 10.3 Possibility of hazardous reactions No dangerous reactions known. • 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- *STOT-single exposure Based on available data, the classification criteria are not met.*
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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.

- Harmful to aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

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# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S. (vapour pressure a 50°C not more than 110 kPa) (BUTYL ACETATES)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	3 Flammable liquids. 3
	5
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	В
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<b>f</b> Not applicable.



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Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
- IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (VAPOU
	PRESSURE AT 50°C NOT MORE THAN 110 KPA
	(BUTYL ACETATES), 3, II

## **SECTION 15: Regulatory information**

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms GHS02, GHS07
- · Signal word Danger
- Hazard-determining components of labelling:
- hexamthylene -1,6-diisocyanate homopolymer

4-isocyanatosulphonyltoluene

hexamethylene-di-isocyanate

### · Hazard statements

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

 P101
 If medical advice is needed, have product container or label at hand.

 P102
 Keep out of reach of children.

 P103
 Read carefully and follow all instructions.

 P210
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

 P241
 Use explosion-proof [electrical/ventilating/lighting] equipment.

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Directive 201	2/18/EU
	erous substances - ANNEX I None of the ingredients is listed.
	ory P5c FLAMMABLE LIQUIDS
· Qualifying qu	<i>uantity (tonnes) for the application of lower-tier requirements 5,000 t</i> <i>uantity (tonnes) for the application of upper-tier requirements 50,000 t</i> <i>ON (EC) No 1907/2006 ANNEX XVII</i> Conditions of restriction: 3
·DIRECTIVE	2011/65/EU on the restriction of the use of certain hazardous substances in electrical and upment – Annex II
None of the in	ngredients is listed.
·REGULATIC	DN (EU) 2019/1148
• Annex I - RE under Article	ESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing 5(3))
None of the in	ngredients is listed.
· Annex II - RI	EPORTABLE EXPLOSIVES PRECURSORS
None of the in	ngredients is listed.
· Regulation (I	EC) No 273/2004 on drug precursors
None of the in	ngredients is listed.
	EC) No 111/2005 laying down rules for the monitoring of trade between the Community and es in drug precursors
None of the in	ngredients is listed.
· National regi	ilations
e	
	tructions (air):
Class Shar	
	<i>re in %</i> 0.6

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 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.

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(Contd. of page 10) · Relevant phrases H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. · Department issuing SDS: Tambour Ltd.- Health & Safety Department. · Contact: Moti Adler Phone: +972(4)985-3795 e-mail: motiA@tambour.co.il · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • \* Data compared to the previous version altered.