# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET

Date of issue/Date of revision

: 20 June 2024

Version : 1.03



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

1.1 Product identifier	
Product name	: DELTRON FAST MS HARDENER
Product code	: D803/E1
Product type	: Liquid.
Other means of identification	: Not available.
	T02P-G3WQ-700T-RS4A
1.2 Relevant identified us	ses of the substance or mixture and uses advised against
Product uso	Professional applications. Used by approving

Product use Use of the substance/ mixture	<ul> <li>Professional applications, Used by spraying.</li> <li>Fardener.</li> </ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

PPG Industries Italia S.r.l., Via Comasina, 121, 20161 Milano, Italy Tel: +39 02 6404.1 PPG Industries (UK) Ltd., Needham Road, Stowmarket, Suffolk, IP14 2AD, UK Tel: +44 (0) 1449 773 338

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

### 1.4 Emergency telephone number

### **Supplier**

Company emergency telephone number : +39 02 6404.1 (0800-1700)

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317

STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms



Signal word

: Warning

Code : D803/E1 DELTRON FAST MS HARDENER	Date of issue/Date of revision	: 20 June 2024
SECTION 2: Hazards identification		

	-	
Hazard statements	:	Flammable liquid and vapour. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	:	IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P304 + P312, P501
Supplemental label elements	:	Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# : Prolonged or repeated contact may dry skin and cause irritation.

Other hazards which do not result in classification

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

Product/ingredient name	Identifiers	%	Classification	Туре
rexamethylene diisocyanate, oligomers (isocyanurate type)	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3,	[1] [2]
English (GB)	United I	Kingdom (UK)	1	2/1

Code DELTRON	: D803/E1 FAST MS HARDENER	Date of issue/Date of revision	: 20 June 2024	
SECTION 3: Composition/information on ingredients				
			40	

Solvent naphtha (petroleum), light arom. Nota(s) P	REACH #: 01-2119486773-24 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≥1.0 - ≤4.3	H412 Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
hexamethylene-di-isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	<0.10	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### SUB codes represent substances without registered CAS Numbers.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

4.1 Description of mot and n	
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	toms

English (GB)

Code : D803/E DELTRON FAST MS H		e of issue/Date of revision	: 20 June 2024
SECTION 4: Firs	at aid measures		
Eye contact	: No specific data.		
Inhalation	: Adverse symptoms may respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	include the following:	
Skin contact	: Adverse symptoms may irritation redness dryness cracking	include the following:	
Ingestion	: No specific data.		

# 4.3 Indication of any immediate medical attention and special treatment needed

Specific treatments	: No specific treatment.
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	li t li	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. n a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long asting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	r (	Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. nydrogen cyanide
5.3 Advice for firefighters		
Special protective actions for fire-fighters	t s	Promptly isolate the scene by removing all persons from the vicinity of the incident if here is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Jse water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	b	Fire-fighters should wear appropriate protective equipment and self-contained preathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Code : D803/E1 DELTRON FAST MS HARDENER Date of issue/Date of revision

: 20 June 2024

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Special provisions	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Code	: D803/E1	Date of issue/Date of revision	: 20 June 2024
DELTRON	FAST MS HARDENER		

# SECTION 7: Handling and storage

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Precautions should be taken to minimise exposure to atmospheric humidity or water.

CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurisation.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

### 8.1 Control parameters

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values			
Hexamethylene diisocyanate, oligomers	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,			
(isocyanurate type)	all, except methyl isocyanate] Inhalation sensitiser.			
	STEL: 0.07 mg/m <sup>3</sup> , (as -NCO) 15 minutes.			
	TWA: 0.02 mg/m³, (as -NCO) 8 hours.			
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).			
	STEL: 966 mg/m <sup>3</sup> 15 minutes.			
	STEL: 200 ppm 15 minutes.			
	TWA: 724 mg/m <sup>3</sup> 8 hours.			
	TWA: 150 ppm 8 hours.			
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-			
	or mixed isomers] Absorbed through skin.			
	STEL: 441 mg/m <sup>3</sup> 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 220 mg/m <sup>3</sup> 8 hours.			
	TWA: 50 ppm 8 hours.			
hexamethylene-di-isocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,			
	all, except methyl isocyanate] Inhalation sensitiser.			
	STEL: 0.07 mg/m³, (as -NCO) 15 minutes.			
English (GB)	United Kingdom (UK) 6/16			

Code	: D803/E1	Date of issue/Date of revision	: 20 June 2024
<b>DELTRON F</b>	AST MS HARDENER		

# SECTION 8: Exposure controls/personal protection

TWA: 0.02 mg/m<sup>3</sup>, (as -NCO) 8 hours.

# Biological exposure indices Product/ingredient name Exposure indices

xylene		XYLENES	
Recommended monitoring	: Reference shoul	d be made to appropriate monitoring standards.	Reference to

procedures

national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
<b>⊮</b> examethylene diisocyanate,	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
oligomers (isocyanurate type)					
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/m³	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	
5	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
Solvent naphtha (petroleum),	DNEL	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Systemic
light arom. Nota(s) P					- ,
<u>g</u>	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	General population	
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.41 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	640 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	837.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/m <sup>3</sup>	Workers	Systemic
hexamethylene-di-isocyanate	DNEL	Long term Inhalation	0.035 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0.07 mg/m <sup>3</sup>	Workers	Local
			5.57 mg/m		2004

**PNECs** 

Code : D803/E1 DELTRON FAST MS HARDENER Date of issue/Date of revision

: 20 June 2024

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

Product/ingredient name	Compartment Detail	Value	Method Detail
Hexamethylene diisocyanate, oligomers (isocyanurate type)	Fresh water	0.127 mg/l	Assessment Factors
	Marine water	0.0127 mg/l	Assessment Factors
	Sewage Treatment Plant	88 mg/l	Assessment Factors
	Fresh water sediment	266701 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	26670 mg/kg dwt	Equilibrium Partitioning
	Soil	53182 mg/kg	Equilibrium Partitioning
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine water	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Sewage Treatment Plant	35.6 mg/l	-
	Soil	0.0903 mg/kg	-
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
hexamethylene-di-isocyanate	Fresh water	0.0774 mg/l	Assessment Factors
	Marine water	0.00774 mg/l	Assessment Factors
	Sewage Treatment Plant	8.42 mg/l	Assessment Factors
	Fresh water sediment	0.01334 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.001334 mg/kg	Equilibrium Partitioning
		dwt	-
	Soil	0.0026 mg/kg dwt	Equilibrium Partitioning

#### 8.2 Exposure controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation Appropriate engineering controls or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, before **Hygiene measures** eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. **Eye/face protection** : Safety glasses with side shields. **Skin protection** Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. butyl rubber

Code : D803/E1 DELTRON FAST MS HARDENER	Date of issue/Date of revision	: 20 June 2024
SECTION 8: Exposure control	s/personal protection	

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Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Restrictions on use	<ul> <li>Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.</li> </ul>
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

Appearance						
Physical state		Liquid				
Colour	1	Liquid. Colourless.				
Odour	- 1	•••••	Characteristic.			
Odour threshold	- 1	Not ava				
Melting point/freezing point	:	This is I	May start to solidify at the following temperature: -51.3 to -28.4°C (-60.3 to -19.1°F) This is based on data for the following ingredient: Hexamethylene diisocyanate, oligomers (isocyanurate type). Weighted average: -61.64°C (-79°F)			
Initial boiling point and boiling range	:	>37.78°	°C (>100°F)			
Flammability (solid, gas)	:	liquid				
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)				
Flash point	:	Closed	cup: 26°C (78	8.8°F)		
Auto-ignition temperature	:					
Ingredient name			°C	°F	Method	
Solvent naphtha (petroleum), light aro	n. No	ota(s) P	280 to 470	536 to 878		
рН	:	Not app	licable.			
		Not app	licable. insolu	ble in water.		
Viscosity	:	Kinema	tic (40°C): >2	1 mm²/s		
Solubility(ies)	:					
Media		Result				
cold water	Not soluble					
Miscible with water	:	No.				

English (GB)

Code	: D803/E1	Date of issue/Date of revision	: 20 June 2024

DELTRON FAST MS HARDENER

# **SECTION 9: Physical and chemical properties**

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Partition coefficient: n-octanol/ : Not applicable. water

### Vapour pressure

	Vapour Pressure at 20°C			V	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
n-butyl acetate	11.25096	1.5	DIN EN 13016-2				
Relative density	: 1.03	3	Į				
Vapour density	: <mark>⊮</mark> ígl 1)	hest known	value: 4 (Air = 1) (i	n-butyl acetat	te). Weigh	ted average: 3.96(Air	
Explosive properties		•	elf is not explosive, l with air is possible.	but the forma	ition of an e	explosible mixture of	
Oxidising properties Particle characteristics	: Pro	duct does r	not present an oxidizi	ing hazard.			
Median particle size	: Not	applicable.					

<b>SECTION 10: Stabilit</b>	ECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.				
10.5 Incompatible materials	: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, wate Uncontrolled exothermic reactions occur with amines and alcohols.				
10.6 Hazardous decomposition products	<ul> <li>Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide</li> </ul>				

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>⊬</b> examethylene	LD50 Dermal	Rabbit	>2000 mg/kg	-
diisocyanate, oligomers				
(isocyanurate type)				
	LD50 Oral	Rat - Female	>2500 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha	LD50 Dermal	Rabbit	3.48 g/kg	-
(petroleum), light arom. Nota				
(s) P				
. ,	LD50 Oral	Rat	8400 mg/kg	-
hexamethylene-di-	LC50 Inhalation Dusts and	Rat	124 mg/m <sup>3</sup>	4 hours
isocyanate	mists			
English (GB)	United K	ingdom (UK)		1

Code	: D803/E1	Date of issue/Date of revision	: 20 June 2024
DELTRON F	AST MS HARDENER		

# **SECTION 11: Toxicological information**

	•	Rat	- 0	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
	LD50 Oral	Rat	0.71 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
ELTRON FAST MS HARDENER Hexamethylene diisocyanate, oligomers (isocyanurate type)	N/A N/A	39877.6 N/A	N/A N/A	258.0 N/A	2.5 1.5
n-butyl acetate	10768 4300	N/A 1700	N/A N/A	N/A 11	N/A N/A
xylene Solvent naphtha (petroleum), light arom. Nota(s) P hexamethylene-di-isocyanate	8400 710	3480 N/A	N/A N/A N/A	N/A 0.151	N/A N/A N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	Not available.				
Skin	: There are no data available or	n the mixture its	self.		
Eyes	: There are no data available or	n the mixture its	self.		
Respiratory	: There are no data available or	n the mixture its	self.		
Sensitisation					
<b>Conclusion/Summary</b>					
Skin	: There are no data available or	n the mixture its	self.		
Respiratory	: There are no data available or	n the mixture its	self.		
<u>Mutagenicity</u>					
<b>Conclusion/Summary</b>	: There are no data available or	n the mixture its	self.		
Carcinogenicity					
<b>Conclusion/Summary</b>	: There are no data available or	n the mixture its	self.		
Reproductive toxicity					
Conclusion/Summary <u>Teratogenicity</u>	: There are no data available or	n the mixture its	self.		
<b>Conclusion/Summary</b>	: There are no data available or	n the mixture its	self.		
Specific target organ toxicity	v (single exposure)				

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers (isocyanurate type)	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light arom. Nota(s) P	Category 3	-	Narcotic effects
hexamethylene-di-isocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Code	: D803/E1	Date of issue/Date of revision	: 20 June 2024
DELTRON F	AST MS HARDENER		

# SECTION 11: Toxicological information

	ingi	redient name	Result
kylene Solvent naphtha (petroleum)	), lig	ht arom. Nota(s) P	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
nformation on likely routes f exposure	:	Not available.	
Potential acute health effects	<u>s</u>		
Eye contact	:	No known significant effects or cri	itical hazards.
Inhalation	:	Harmful if inhaled. Can cause cer cause drowsiness or dizziness. M	ntral nervous system (CNS) depression. May lay cause respiratory irritation.
Skin contact		skin reaction.	skin dryness and irritation. May cause an allergic
Ingestion	:	Can cause central nervous system	n (CNS) depression.
symptoms related to the phy	ysic	al, chemical and toxicological cl	haracteristics
Eye contact	:	No specific data.	
Inhalation	:	Adverse symptoms may include the respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	he following:
Skin contact	:	Adverse symptoms may include th irritation redness	he following:
		dryness cracking	
Ingestion	:	,	
		cracking	hort and long-term exposure
		cracking No specific data.	hort and long-term exposure
Delayed and immediate effect	<u>cts a</u>	cracking No specific data.	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate	cts a	cracking No specific data. as well as chronic effects from s	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate effects	cts a	cracking No specific data. as well as chronic effects from s Not available.	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	<u>cts :</u> :	cracking No specific data. as well as chronic effects from s Not available.	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	cts : : :	cracking No specific data. as well as chronic effects from s Not available. Not available.	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	cts ; : : :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available.	<u>hort and long-term exposure</u>
Delayed and immediate effects Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	cts ; : : :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available.	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Not available.	cts i : : : : :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available.	<u>hort and long-term exposure</u>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff	cts i : : : fects :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available. Not available. Prolonged or repeated contact car	n defat the skin and lead to irritation, cracking and severe allergic reaction may occur when
Delayed and immediate effects Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary	<u>cts</u> : : : : : : : :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available. S Not available. Prolonged or repeated contact can or dermatitis. Once sensitized, a	n defat the skin and lead to irritation, cracking and severe allergic reaction may occur when r levels.
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary General	<u>cts</u> : : : : : : : : : :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available. Not available. Prolonged or repeated contact cal or dermatitis. Once sensitized, a subsequently exposed to very low	n defat the skin and lead to irritation, cracking and severe allergic reaction may occur when r levels. itical hazards.
Delayed and immediate effects Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Not available. Conclusion/Summary General Carcinogenicity	<u>cts</u> : : : : : : : : : : :	cracking No specific data. as well as chronic effects from s Not available. Not available. Not available. Not available. S Not available. Prolonged or repeated contact cat or dermatitis. Once sensitized, a subsequently exposed to very low No known significant effects or critical Not available.	n defat the skin and lead to irritation, cracking and severe allergic reaction may occur when r levels. itical hazards. itical hazards.

English (GB) United Kingdom (UK) 12/16

Code : D803/E1 DELTRON FAST MS HARDENER Date of issue/Date of revision

: 20 June 2024

# **SECTION 12: Ecological information**

### 12.1 Toxicity

diisocyanate, oligomers (isocyanurate type)subAcute EC50 >100 mg/l Acute LC50 >100 mg/lDan-butyl acetateAcute LC50 18 mg/l	pecies	Exposure
Acute EC50 >100 mg/lDateAcute LC50 >100 mg/lFisn-butyl acetateAcute LC50 18 mg/lFisFis	lgae - scenedesmus ubspicatus	72 hours
Solvent naphtha (petroleum), Acute LC50 8.2 mg/l Fis	Daphnia - <i>daphnia magna</i> Fish - <i>Danio rerio (zebra fish)</i> Fish Fish	48 hours 96 hours 96 hours 96 hours

### 12.2 Persistence and degradability

**Conclusion/Summary** 

Product/ingredient name	Test	Result	Dose	Inoculum
<mark>∳</mark> -butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-

 Product/ingredient name
 Aquatic half-life
 Photolysis
 Biodegradability

 Mexamethylene
 Not readily

 diisocyanate, oligomers
 Readily

 n-butyl acetate
 Readily

 xylene
 Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓examethylene diisocyanate, oligomers (isocyanurate type)	5.54	3.2	Low
n-butyl acetate	2.3	-	Low
xylene	3.12	7.4 to 18.5	Low
hexamethylene-di-isocyanate	0.02	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

: Not available.

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

**Product** 

Code : D803/E1 DELTRON FAST MS HARE		te of issue/Date of revision	: 20 June 2024	
SECTION 13: Disposal considerations				
Methods of disposal : The generation of waste should be avoided or minimised wherever possible.				

	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

### Waste catalogue

Waste code	e code Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		

### **Methods of disposal**

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	Waste catalogue	
Container	15 01 04	metallic packaging
Special precautions	taken when Empty cont residues m container. thoroughly	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with vays, drains and sewers.

# **SECTION 14: Transport information**

	-			
	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	111	III	111
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

### **Additional information**

ADR/RID : None identified. **Tunnel code** : (D/E) **ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. IMDG : None identified. ΙΑΤΑ : None identified.

user

**14.6 Special precautions for** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Code	: D803/E1	Date of issue/Date of revision	: 20 June 2024	
DELTRON FAST MS HARDENER				

**SECTION 14: Transport information** 

14.7 Transport in bulk according to IMO instruments

: Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category

P5c

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and</li> </ul>
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

<mark>Code</mark> DELTRON	: D803/E1 Date	e of issue/Date of revision	: 20 June 2024
SECTIO	N 16: Other information		
₩226 H302 H304	Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airw	/ays.	
H312 H315	Harmful in contact with skin. Causes skin irritation.		
H317 H319 H330	May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled.		

H332 Harmful if inhaled.

- 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.
- Harmful to aquatic life with long lasting effects. H412
- Repeated exposure may cause skin dryness or cracking. EUH066

### Full text of classifications

Cute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
History	

motory	
Date of issue/ Date of revision	: 20 June 2024
Date of previous issue	: 12 March 2024
Prepared by	: EHS
Version	: 1.03

### **Disclaimer**

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