MASTIDEK (Part A)

REV. 02 - 02/2022 PRINT DATE - 02/2022

PROLINE

Section 1

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Code: MASTIDEKFAST_CAR_A

Product name: MASTIDEK FAST CARTRIDGE PART A

UFI code: NRM0-C05K-U00A-T027

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use: BICOMPONENT GLUE IN CARTRIDGE - PART A

Identified uses:

ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR (INDUSTRIAL AND PROFESSIONAL)

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

Tenax Spa Via I Maggio, 226 37020 Volargne (VR) - Italy Phone: +39 045 6887593 - Fax: +39 045 6862456 E-mail: msds@tenax.it

Supplier:

Cosentino Global S.L.U., Ctra. A334, Baza-Huércal Overa, km 59 04850 Cantoria (Almería) - Spain Phone: +34 950 444 175 E-mail: info@cosentino.com Website: www.cosentino.com

1.4 Emergency telephone number

ChemTel Inc. (24/7/365, multilingual):

Worldwide: +1-813-248-0585 United States: 1-800-255-3924 (free toll) Australia: 1-300-954-583 China: 400-120-0751 India: 000-800-100-4086 Mexico: 01-800-099-0731 Brazil: 0-800-591-6042

For information on emergency phone numbers of EU national authorities you may check:

https://echa.europa.eu/documents/10162/2322249/ emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d?t=1628515444598



MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 2 Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H319 - Eye irritation, Category 2 -Causes serious eye irritation.
H317 - Skin sensitization, Category 1 - May cause an allergic skin reaction.
H412 - Hazardous to the aquatic environment, chronic toxicity, Category 3 - Harmful to aquatic life with long lasting effects.

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning.

Hazard statements:

H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P280: Wear protective gloves / eye protection / face protection.
P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313: If skin irritation or rash occurs: Get medical advice / attention.
P337+P313: If eye irritation persists: Get medical advice / attention.

Contains:

N-(3-(TRIMETHOXYSILYL)PROPYL) ETHYLENEDIAMINE. AMINEFUNCTIONAL RESIN. 3-AMINOPROPYLTRIETHOXYSILANE.

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0.1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1 %.

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MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 3 Composition/information on ingredients

3.1 Substance

Non-applicable.

3.2 Mixture

Contains:

IDENTIFICATION		CHEMICAL	NAME/CLASSIFICATION	CONCENTRATION	
CAS:	136210-32-7	AMINEFUN	CTIONAL RESIN		
EC:	412-060-9	Regulation	Skin Sens. 1: H317; Aquatic Chronic 3: H412	50 % ≤ x < 100 %	
Index:	607-350-00-9				
CAS:	1760-24-3	N-(3-(TRIM	ETHOXYSILYL)PROPYL)ETHYLENEDIAMINE		
EC:	217-164-6			1%≤x<3%	
Index:	-	Regulation 1272/2008	Eye Dam. 1: H318; STOT SE 3: H335; Skin Sens. 1: H317	1/0 5 X < 3 /0	
REACH:	01-2119970215-39	,			
CAS:	919-30-2	3-AMINOPF	ROPYLTRIETHOXYSILANE		
EC:	213-048-4			08% <x<09%< td=""></x<09%<>	
Index:	612-108-00-0	Regulation 1272/2008	Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318; Skin Sens. 1: H317; STA Oral: 500 mg/Kg	0.8 % ≤ x < 0.9 %	
REACH:	01-2119480479-24	,			
CAS:	77-58-7	DIBUTYLTI	I DILAURATE		
EC:	201-039-8		Muta. 2: H341; Repr. 1B: H360FD; STOT SE 1: H370; STOT RE 1: H372;	0% < x < 0.05%	
Index:	-	Regulation 1272/2008	Skin Corr. 1C: H314; Eye Dam. 1: H318; Skin Sens. 1: H317;	0 % ≤ X < 0.05 %	
REACH:	01-2119496068-27-0000	, _0000	Aquatic Acute 1: H400 M=1; Aquatic Chronic 1: H410 M=1		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 4 First aid measures

4.1 Description of first aid measures

Eyes:

Remove contact lenses, if present. Wash immediately with plenty of water for at least 30 - 60 minutes, opening the eyelids fully. Get medical advice/attention.

Skin:

Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

Ingestion:

Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

Inhalation:

Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Information not available.

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing equipment:

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

Unsuitable extinguishing equipment: None in particular.

5.2 Special hazards arising from the substance or mixture

Hazards caused by exposure in the event of fire: Do not breathe combustion products.

5.3 Advice for firefighters

General information:

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special protective equipment for fire-fighters:

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety datasheet) to prevent any contamination of skin, eyes and personal clothing.

These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety datasheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3 Specific end use(s)

Information not available.

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 8 Exposure controls/ personal protection

8.1 Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschaädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της επληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζαμένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταπλαξιγόνους παράγοντες κατά την εργασία"
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

CALCIUM CARBONATE

TYPE	COUNTRY	TWA/8 h		STEL/	5 min	REMARKS / OB	SERVATIONS
		mg/m³	ppm	mg/m³	ppm		
AGW	DEU	10	-	-	-	INHAL	-
AGW	DEU	3	-	-	-	RESP	-
TLV	DNK	10	-	-	-	INHAL	-
TLV	DNK	5	-	-	-	RESP	-
VLA	ESP	10	-	-	-	-	-
VLEP	FRA	10	-	-	-	INHAL	-
VLEP	FRA	5	-	-	-	RESP	-
HTP	FIN	10	-	-	-	INHAL	-
NDS/NDSCh	POL	10	-	-	-	-	-
NEL	GBR	4	-	-	-	-	-

AMORPHOUS SILICATE HYDRATE

TYPE	COUNTRY	TWA	TWA/8 h		STEL/15 min		REMARKS / OBSERVATIONS	
		mg/m³	ppm	mg/m³	ppm			
AGW	DEU	4	-	-	-	INHAL	-	
MAK	DEU	4	-	-	-	INHAL	-	
MV	SVN	4	-	-	-	INHAL	-	

TITANIUM DIOXIDE

THRESHOLD LIMIT VALUE

THRESHOLD LIMIT VALUE

TYPE	COUNTRY			STEL/15 min		REMARKS / OBSERVATION	
		mg/m³		mg/m³	ppm		
TLV	BGR	10	-	-	-	RESP	-
TLV	DNK	6	-	-	-	-	Som Ti
VLA	ESP	10	-	-	-	-	-
VLEP	GRA	10	-	-	-	-	-
TLV	GRC	-	10	-	-	-	-
GVI/KGVI	HRV	10	-	-	-	INHAL	-
GVI/KGVI	HRV	4	-	-	-	RESP	-
TLV	NOR	5	-	-	-	-	-
NDS/NDSCh	POL	10	-	-	-	INHAL	-
TLV	ROU	10	-	15	-	-	-
NGV/KGV	SWE	5	-	-	-	-	Totaldamm
WEL	GBR	10	-	-	-	INHAL	-
WEL	GBR	4	-	-	-	RESP	-
TLV-ACGIH	-	10	-	-	-	-	-

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE

PREDICTED NO-EFFECT CONCENTRATION - PNEC

Normal value in fresh water	0.062	mg/l
Normal value in marine water	0.0062	mg/l
Normal value for fresh water sediment	0.05	mg/Kg
Normal value for marine water sediment	0.005	mg/Kg
Normal value for the terrestrial compartment	0.0075	mg/Kg

HEALTH - DERIVED NO-EFFECT LEVEL - DNEL / DMEL

ROUTE OF	EFFECTS ON CONSUMERS		EFFECT ON WORKERS					
EXPOSURE	ACUTE		CHRONIC		ACUTE		CHRONIC	
	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC
Oral	-	-	-	2.5 mg/Kg/d	-	-	-	-
Inhalation	-	-	-	8.7 mg/m ³	-	-	-	35.5 mg/m ³
Skin	-	-	-	2.5 mg/Kg/d	-	-	-	5 mg/Kg/d

DIBUTYLTIN DILAURATE

	D LIMIT VALUE					
TYPE	COUNTRY	TWA	/8 h	STEL/1	5 min	REMARKS / OBSERVATIONS
		mg/m ³	ppm	mg/m³	ppm	
OEL	EU	0.1	-	0.2	-	SKIN -

Normal value in fresh water	0.00046	mg/l
	3	
Normal value in marine water	0.00004	mg/l
	63	
Normal value for fresh water sediment	0.05	mg/Kg
Normal value for marine water sediment	0.005	5/ 5
Normal value for water, intermittent release	0.00463	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	0.2	mg/Kg
Normal value for the terrestrial compartment	0.0407	mg/Kg

REV. 02 - 02/2022 PRINT DATE - 02/2022

HEALTH - DERIVED NO-EFFECT LEVEL - DNEL / DMEL

ROUTE OF	EFFECTS ON CONSUMERS					EFFECT ON WORKERS			
EXPOSURE	ACUTE		CHRONIC		ACUTE		CHRONIC		
	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	
Oral	VND	0.01 mg/Kg bw/d	VND	0.002 mg/Kg bw/d	-	-	-	-	
Inhalation	VND	0.02 mg/m ³	VND	0.003 mg/m ³	VND	0.07 mg/m ³	VND	0.01 mg/m ³	
Skin	VND	0.5 mg/Kg bw/d	VND	0.08 mg/Kg bw/d	VND	1 mg/Kg bw/d	VND	0.2 mg/Kg bw/d	

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station.

Hand protection:

Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Skin protection:

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Eye protection:

Wear airtight protective goggles (see standard EN 166).

Respiratory protection:

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Environmental exposure controls:

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards. Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Hand protection:

Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1:2016) at least type B or higher based on the risk assessment carried out by the company.

Breakthrough time > 480 minutes. Material thickness:

- → NITRILE
 - short contact > 0.38 mm
 - prolonged contact > 0.55 mm
- → FLUOROELASTOMER
 - short contact > 0.50 mm
 - prolonged contact > 1.50 mm

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

PROPERTIES	VALUE	INFORMATION
Appearance	Pasty liquid	-
Colour	As showed in colour folder	-
Odour	Characteristic	-
Melting point/ freezing point	Not available	-
Initial boiling point	Not available	-
Flammability	Not available	-
Lower explosive limit	Not available	-
Upper explosive limit	Not available	-
Flash point	> 60 °C	-
Auto-ignition temperature	Not available	-
рН	Not available	Reason for missing data: substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Kinematic viscosity		
	Not available	-
Solubility	Not available Insoluble in water	-
	Insoluble in	-
Solubility Partition coefficient:	Insoluble in water	-
Solubility Partition coefficient: n-octanol/water	Insoluble in water Not available	- - - -
Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or	Insoluble in water Not available Not available	- - - -
Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour	Insoluble in water Not available Not available 1.1 g/cm ³	- - - - -

9.2 Other information

9.2.1 Information with regard to physical hazard classes:

Information not available.

9.2.2 Other safety characteristics:

VOC 0 % (Directive 2010/75/UE).

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 10 Stability and reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5 Incompatible materials

Information not available.

10.6 Hazardous decomposition products

Information not available.

Section 11 Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information: Information not available.

Information on likely routes of exposure: Information not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Information not available.

Interactive effects: Information not available.

ACUTE TOXICITY:

ATE (Inhalation) of the mixture	Not classified			
	(no significant component)			
	Not classified			
ATE (Oral) of the mixture	(no significant component)			
	Not classified			
ATE (Dermal) of the mixture	(no significant component)			
DIBUTYLTIN DILAURATE				
LD50 (Oral)	2071 mg/Kg (Rat)			
LD50 (Dermal)	> 2000 mg/Kg (Rat)			
3-AMINOPROPYLTRIETHOXYSIL	ANE			
	500 mg/Kg estimate from table			
	3.1.2 of Annex I of the CLP (figure			
STA (Oral)	used for calculation of the acute			
	toxicity estimate of the mixture)			

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

SKIN CORROSION/IRRITATION:

Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION:

Sensitising for the skin.

Skin sensitization:

Information not available.

GERM CELL MUTAGENICITY:

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY:

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY:

Does not meet the classification criteria for this hazard class.

Adverse effects on sexual function and fertility: Information not available.

Adverse effects on development of the offspring: Information not available.

Effects on or via lactation: Information not available.

STOT - SINGLE EXPOSURE:

Does not meet the classification criteria for this hazard class.

Target organs:

Information not available.

Route of exposure: Information not available.

STOT - REPEATED EXPOSURE:

Does not meet the classification criteria for this hazard class.

Target organs: Information not available.

Route of exposure: Information not available.

ASPIRATION HAZARD:

Does not meet the classification criteria for this hazard class.

11.2 Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 12 Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on aquatic environment.

12.1 Toxicity

DIBUTYLTIN DILAURATE					
LC50 - for Fish	3.1 mg/l/96 h (Brachydanio rerio)				
EC50 - for Crustacea	< 0.463 mg/l/48 h (Daphnia magna)				
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72 h (Desmodesmus subspicatus)				
Chronic NOEC for Algae / Aquatic Plants	1000 mg/l 3 h				

12.2 Persistence and degradability

→ DIBUTYLTIN DILAURATE NOT rapidly degradable.

12.3 Bioaccumulative potential

Information not available.

12.4 Mobility in soil

Information not available.

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0.1 %.

12.6 Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7 Other adverse effects

Information not available.

Section 13 Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Contaminated packaging:

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 14 Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1 UN number or ID number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Information not relevant.

Section 15 Regulatory information

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

Seveso Category - Directive 2012/18/EU: None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006:

→ Product

- Point: 3 40
- → Contained substance
 ∘ Point: 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors: Not applicable.

Substances in Candidate List (Art. 59 REACH): On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0.1%.

Substances subject to authorisation (Annex XIV REACH): None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Healthcare controls:

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2 Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances:

 \rightarrow DIBUTYLTIN DILAURATE

MASTIDEK (Part A)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 16 Other information

Texts of hazard (H) indications mentioned in section 2 - 3 of the sheet:

•••••••••••••••••••••••••••••••••••••••	
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
STOT SE 1	Specific target organ toxicity - single exposure, Category 1
Acute Tox. 4	Acute toxicity, Category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3
Skin Sens. 1	Skin sensitization, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, Category 3
H341	Suspected of causing genetic defects
H360FD	May damage fertility May damage the unborn child
H370	Causes damage to organs
H302	Harmful if swallowed
H372	Causes damage to organs through prolonged or repeated exposure
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Legend:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
 ATE: Acute Toxicity Estimate
 CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50 % effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
 GHS: Globally Harmonized System of
- classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50 %
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50 %
- LD50: Lethal Dose 50 %
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PNEC: Predicted No-Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- \circ VOC: Volatile Organic Compounds
- vPvB: Very Persistent and Very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

General bibliography:

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- Regulation (EU) 2016/918
 (VII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480
- (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index., 10th Edition
- Handling Chemical Safety
- INRS, Fiche Toxicologique (toxicological sheet)
- Patty, Industrial Hygiene and Toxicology
- N.I. Sax, Dangerous properties of
- Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals, Ministry of Health and ISS (Istituto Superiore di Sanità), Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Calculation methods for classification:

- → Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
- → Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in section 11.
- → Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in section 12.

Changes to previous review:

The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.

MASTIDEK (Part B)

REV. 02 - 02/2022 PRINT DATE - 02/2022

PROLINE

Section 1

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Code: MASTIDEKFAST_CAR_B

Product name: MASTIDEK FAST CARTRIDGE PART B

UFI code: NUMO-UOVO-400T-FAN9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use: BICOMPONENT GLUE IN CARTRIDGE - PART B

Identified uses:

ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR (INDUSTRIAL AND PROFESSIONAL)

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

Tenax Spa Via I Maggio, 226 37020 Volargne (VR) - Italy Phone: +39 045 6887593 - Fax: +39 045 6862456 E-mail: msds@tenax.it

Supplier:

Cosentino Global S.L.U., Ctra. A334, Baza-Huércal Overa, km 59 04850 Cantoria (Almería) - Spain Phone: +34 950 444 175 E-mail: info@cosentino.com Website: www.cosentino.com

1.4 Emergency telephone number

ChemTel Inc. (24/7/365, multilingual):

Worldwide: +1-813-248-0585 United States: 1-800-255-3924 (free toll) Australia: 1-300-954-583 China: 400-120-0751 India: 000-800-100-4086 Mexico: 01-800-099-0731 Brazil: 0-800-591-6042

For information on emergency phone numbers of EU national authorities you may check:

https://echa.europa.eu/documents/10162/2322249/ emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d?t=1628515444598



MASTIDEK (Part B)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 2 Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H332 - Acute toxicity, Category 4 - Harmful if inhaled.
H335 - Specific target organ toxicity - single exposure, Category 3 - May cause respiratory irritation.
H317 - Skin sensitization, Category 1 - May cause an allergic skin reaction.

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning.

Hazard statements:

H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H317 - May cause an allergic skin reaction.
EUH204 - Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P280: Wear protective gloves.
P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
P312: Call a POISON CENTRE / doctor / ... if you feel unwell.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Contains:

ALIPHATIC POLYISOCYANATE.

As from 24 August 2023, adequate training is required before industrial or professional use.

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0.1 %.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1 %.



PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 3 Composition/information on ingredients

3.1 Substance

Non-applicable.

3.2 Mixture

Contains:

IDENTIFI	CATION	CHEMICAL	CONCENTRATION	
CAS:	28182-81-2	ALIPHATIC	POLYISOCYANATE	
EC:	500-060-2			
Index:	-	Regulation 1272/2008	Acute Tox. 4: H332; STOT SE 3: H335; Skin Sens, 1: H317; EUH204 STA Inhalation mists/powders: 1.5 mg/l	50 % ≤ x < 100 %
REACH:	01-2119485796-17-XXXX	,		
CAS:	822-06-0		IYLENE-DI-ISOCYANATE	
EC:	212-485-8		Acute Tox. 1: H330; Acute Tox. 4: H302; Eye Irrit. 2: H319;	
Index:	615-011-00-1	Regulation 1272/2008	Skin Irrit. 2: H315; STOT SE 3: H335; Resp. Sens. 1: H334; Skin Sens. 1: H317; Classification note according to Annex VI to the CLP Regulation: 2	0.354 % ≤ x < 0.404 %
REACH:	01-2119457571-37-XXXX	, 2000	Skin Sens. 1: H317: ≥ 0.5 %; Resp. Sens. 1: H334: ≥ 0.5 % LD50 Oral: 746 mg/Kg; LC50 Inhalation vapours: 0.124 mg/l/4 h	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 4 First aid measures

4.1 Description of first aid measures

Eyes:

Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

Skin:

Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/ attention immediately. Wash contaminated clothing before using it again.

Ingestion:

Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

Inhalation:

Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Cough, pain, choking and difficulty breathing.

4.3 Indication of any immediate medical attention and special treatment needed

Information not available.

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing equipment:

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

Unsuitable extinguishing equipment: None in particular.

5.2 Special hazards arising from the substance or mixture

Hazards caused by exposure in the event of fire: Do not breathe combustion products.

Hazardous Combustion Products:

Nitrogen oxides (NO_x) , carbon monoxide (CO), carbon dioxide (CO_2) , hydrogen cyanide (HCN), isocyanate, pyrolysis products.

5.3 Advice for firefighters

General information:

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special protective equipment for fire-fighters:

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

MASTIDEK (Part B)

REV. 02 - 02/2022 PRINT DATE - 02/2022

PROLINE

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety datasheet) to prevent any contamination of skin, eyes and personal clothing.

These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety datasheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3 Specific end use(s)

Information not available.

MASTIDEK (Part B)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 8 Exposure controls/ personal protection

8.1 Control parameters

Regulatory References:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
	TLV-ACGIH	ACGIH 2021
	·····	

MASTIDEK (Part B)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

ALIPHATIC POLYISOCYANATE

Normal value in fresh water	0.127	57
Normal value in marine water	0.0127	mg/l
Normal value for fresh water sediment	266700	mg/Kg
Normal value for marine water sediment	26670	mg/Kg
Normal value for water, intermittent release	1.27	mg/l
Normal value of STP microorganisms	38.3	mg/l
Normal value for the terrestrial compartment	53182	mg/Kg

HEALTH - DERIVED NO-EFFECT LEVEL - DNEL / DMEL

ROUTE OF		EFFECTS ON O		EFFECT ON WORKERS					
EXPOSURE	AC	ACUTE		CHRONIC		ACUTE		CHRONIC	
	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	
Inhalation	-	-	-	-	1 mg/m ³	-	0.5 mg/m ³	-	

MASTIDEK (Part B)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

HEXAMETHYLENE-DI-ISOCYANATE

TYPE COUNTRY	COUNTRY TWA/8 h		STEL/15 min		REMARKS / OBSERVATIONS		
		mg/m³	ppm	mg/m³	ppm		
TLV	BGR	0.1	-	-	-	-	-
TLV	CZE	0.035	0.005	0.07	0.01	-	-
AGW	DEU	0.035	0.005	0.035 (C)	0.005 (C)	-	-
MAK	DEU	0.035	0.005	0.035 (C)	0.005 (C)	-	C = 0.070 mg/m ³
TLV	DNK	0.035	0.005	-	-	-	-
VLA	ESP	0.035	0.005	-	-	-	-
VLEP	FRA	0.075	0.01	0.15	0.02	-	-
AK	HUN	0.035	-	0.035	-	-	-
TLV	NOR	-	0.005	-	-	-	-
NDS/NDSCh	POL	0.04	-	0.08	-	SKIN	-
TLV	ROU	0.05	0.007	1	0.14	-	-
NGV/KGV	SWE	0.02	0.002	0.03	0.005	-	STEL: 5 min
MV	SVN	0.035	0.005	0.035	0.005	-	-
TLV-ACGIH	-	0.034	0.005	-	-	-	-

PREDICTED NO-EFFECT CONCENTRATION - PNEC

Normal value in fresh water	0.077 mg/l
Normal value in marine water	0.008 mg/l
Normal value for fresh water sediment	0.013 mg/Kg
Normal value for marine water sediment	0.001 mg/Kg
Normal value for water, intermittent release	0.774 mg/l
Normal value of STP microorganisms	8.42 mg/l
Normal value for the terrestrial compartment	0.003 mg/Kg

ROUTE OF EXPOSURE		EFFECTS ON (EFFECT ON WORKERS			
	ACUTE		CHRONIC		ACUTE		CHRONIC	
	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC	LOCAL	SYSTEMIC
Inhalation	-	-	-	-	0.07 mg/m ³	0.07 mg/m ³	0.035 mg/m ³	0.035 mg/m ³

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station.

Hand protection:

Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Skin protection:

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Eye protection:

Wear airtight protective goggles (see standard EN 166).

Respiratory protection:

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

Environmental exposure controls:

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards. Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Hand protection:

Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1:2016) at least type B or higher based on the risk assessment carried out by the company.

Breakthrough time > 480 minutes. Material thickness:

\rightarrow NITRILE

- short contact > 0.38 mm
- prolonged contact > 0.55 mm
- → FLUOROELASTOMER
 - short contact > 0.50 mm
 - prolonged contact > 1.50 mm

MASTIDEK (Part B)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

PROPERTIES	VALUE	INFORMATION
Appearance	Liquid	-
Colour	Slight yellow	-
Odour	Odourless	-
Melting point/ freezing point	Not available	-
Initial boiling point	Not available	-
Flammability	Not available	-
Lower explosive limit	Not available	-
Upper explosive limit	Not available	-
Flash point	169.5 °C	-
Auto-ignition temperature	Not available	-
рН	Not available	Reason for missing data: substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Kinematic viscosity	Not available	-
Dynamic viscosity	5,380 mPa s	Temperature: 20 °C
Solubility	Insoluble in water	-
Partition coefficient: n-octanol/water	Not available	-
Vapour pressure	Not available	-
Density and/or relative density	1.13 g/cm ³	-
Relative vapour density	Not available	-
Particle characteristics	Not applicable	-

9.2 Other information

9.2.1 Information with regard to physical hazard classes:

Information not available.

9.2.2 Other safety characteristics:

VOC 0 % (Directive 2010/75/UE).

Section 10 Stability and reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

→ HEXAMETHYLENE-DI-ISOCYANATE Decomposes at 255 °C/491 °F. Polymerises at temperatures above 200 °C/392 °F.

10.2 Chemical stability

The product is stable in normal conditions of use and storage. Maximum processing temperature: 40 °C.

10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

→ HEXAMETHYLENE-DI-ISOCYANATE

May form explosive mixtures with: alcohols, bases. May react violently with: alcohols, amines, strong bases, oxidising agents, strong acids, water.

Dangerous reactions with water.

10.4 Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

$\rightarrow \quad \text{HEXAMETHYLENE-DI-ISOCYANATE}$

Avoid exposure to: high temperatures, moisture.

Avoid humidity, heat, open flames and other sources of ignition.

10.5 Incompatible materials

→ HEXAMETHYLENE-DI-ISOCYANATE Incompatible with: alcohols, carboxylic acids, amines, strong bases.

Water, oxidants, amines, alcohols.

10.6 Hazardous decomposition products

→ HEXAMETHYLENE-DI-ISOCYANATE May develop: nitric oxide, hydrogen cyanide.

Isocyanate, hydrogen cyanide (HCN).

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 11 Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information: Information not available.

Information on likely routes of exposure: Information not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Information not available.

Interactive effects: Information not available.

ACUTE TOXICITY:

ATE (Inhalation - mists/powders) of the mixture	1.50 mg/l
ATE (Inhalation - vapours) of the mixture	Acute Tox. 4
ATE (Inhalation - gas) of the mixture	Acute Tox. 4
ATE (Oral) of the mixture	Not classified
	(no significant component)
ATE (Dermal) of the mixture	Not classified
	(no significant component)
ALIPHATIC POLYISOCYANATE	
LD50 (Oral)	> 2500 mg/Kg (Rat)
LD50 (Dermal)	> 2000 mg/Kg (Rat)
LC50 (Inhalation mists/powders)	0.39 mg/l/4 h
STA (Inhalation mists/powders)	1.5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of

the acute toxicity estimate of

the mixture)

HEXAMETHYLENE-DI-ISOCYANATE

LD50 (Oral)	746 mg/Kg (Rat)
LD50 (Dermal)	570 mg/Kg (Rabbit)
LC50 (Inhalation vapours)	0.124 mg/l/4 h (Rat)

SKIN CORROSION/IRRITATION:

Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE/IRRITATION:

Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITISATION: Sensitising for the skin.

Respiratory sensitization: Information not available.

Skin sensitization: Information not available.

GERM CELL MUTAGENICITY:

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY:

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY:

Does not meet the classification criteria for this hazard class.

Adverse effects on sexual function and fertility: Information not available.

Adverse effects on development of the offspring: Information not available.

Effects on or via lactation: Information not available.

STOT - SINGLE EXPOSURE:

May cause respiratory irritation.

Target organs: Information not available.

Route of exposure:

Information not available.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

STOT - REPEATED EXPOSURE:

Does not meet the classification criteria for this hazard class.

Target organs:

Information not available.

Route of exposure:

Information not available.

ASPIRATION HAZARD:

Does not meet the classification criteria for this hazard class.

11.2 Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

Section 12 Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity

ALIPHATIC POLYISOCY	ANATE	
LC50 - for Fish	> 100 mg/l/96 h	
EC50 - for Crustacea	> 100 mg/l/48 h (Daphnia magna)	
EC50 - for Algae/Aquatic Plants	> 100 mg/l/72 h (Desmodesmus subspicatus)	
Chronic NOEC for Algae/Aquatic Plants	100 mg/l (Desmodesmus subspicatus)	
HEXAMETHYLENE-DI-ISOCYANATE		
LC50 - for Fish	22 mg/l/96 h (Brachydanio rerio)	
EC50 - for Algae/Aquatic Plants	> 77.4 mg/l/72 h (Desmodesmus subspicatus)	
Chronic NOEC for Algae/Aquatic Plants	11.7 mg/l (Desmodesmus subspicatus)	

12.2 Persistence and degradability

→ ALIPHATIC POLYISOCYANATE
 NOT rapidly degradable.
 → HEXAMETHYLENE-DI-ISOCYANATE
 NOT rapidly degradable.

12.3 Bioaccumulative potential

→ HEXAMETHYLENE-DI-ISOCYANATE Partition coefficient: n-octanol/water: 3.2 BCF: 3.2

12.4 Mobility in soil

Information not available.

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0.1 %.

12.6 Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7 Other adverse effects

Information not available.

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 13 Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Contaminated packaging:

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Section 14 Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1 UN number or ID number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Information not relevant.

Section 15 Regulatory information

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

Seveso Category - Directive 2012/18/EU: None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006:

- → Product
- Point: 3
 - Contained substance
 Point: 75
 - Point: 75
 - Point: 74 DIISOCYANATES

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors: Not applicable.

Substances in Candidate List (Art. 59 REACH): On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0.1%.

Substances subject to authorisation (Annex XIV REACH): None.

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Healthcare controls:

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2 Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

MASTIDEK (Part B)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

Section 16 Other information

Texts of hazard (H) indications mentioned in section 2 - 3 of the sheet:

Acute Tox. 1	Acute toxicity, Category 1
Acute Tox. 4	Acute toxicity, Category 4
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Sens. 1	Skin sensitization, Category 1
H330	Fatal if inhaled
H302	Harmful if swallowed
H332	Harmful if inhaled
H319	Causes serious eye irritation
H315	Causes skin irritation
H335	May cause respiratory irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
EUH204	Contains isocyanates May produce an allergic reaction

Legend:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50 % effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50 %
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50 %
- LD50: Lethal Dose 50 %
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PNEC: Predicted No-Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile Organic Compounds
- vPvB: Very Persistent and Very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German)

PROLINE

REV. 02 - 02/2022 PRINT DATE - 02/2022

General bibliography:

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index., 10th Edition
- Handling Chemical Safety
- INRS, Fiche Toxicologique (toxicological sheet)
- Patty, Industrial Hygiene and Toxicology
- N.I. Sax, Dangerous properties of
- Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals, Ministry of Health and ISS (Istituto Superiore di Sanità), Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Calculation methods for classification:

- → Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
- → Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in section 11.
- → Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in section 12.

Changes to previous review:

The following sections were modified: 01 / 02 / 03 / 04 / 05 / 08 / 09 / 10 / 11 / 12 / 15 / 16.