

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 1 / 11

**KRAFT TOTAL PROOF PU Fiber 25** 

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

1. Product identifier				
Code: Product name		CK351050001 KRAFT TOTAI	L PROOF PU Fiber 25	
2. Relevant identified use	s of the substance or	mixture and use	s advised against	
Intended use		Elastomeric H	lybrid Waterproofing Men	nbrane with Aliphatic Polyurethane
3. Details of the supplier of	of the safety data she	et		
Name Full address District and Country		MEGARIDOS 19300	EN HELLAS SA AVENUE ASPROPYRGOS GREECE +30 210 5519500	(ATTIKI)
			+30 210 5519500	
e-mail address of the com responsible for the Safety		psafety@druc	ckfarben.gr	
4. Emergency telephone r	umber			
For urgent inquiries refer to	)	0030-210-7793	3777	
The product is not classifie However, since the produc	ed as hazardous pursua t contains hazardous s	substances in cond		on 1272/2008 (CLP). leclared in section no. 3, it requires a safety data
The product is not classifie	ed as hazardous pursua t contains hazardous s rmation, compliant to (	substances in cond	centrations such as to be d	
The product is not classifie However, since the produc sheet with appropriate info Hazard classification and i	ed as hazardous pursua t contains hazardous s rmation, compliant to (	substances in cond	centrations such as to be d	
The product is not classifie However, since the produc sheet with appropriate info Hazard classification and i <b>2. Label elements</b>	ed as hazardous pursua et contains hazardous s rmation, compliant to ( ndication:	substances in cond EU) Regulation 20 -	centrations such as to be d	leclared in section no. 3, it requires a safety data
The product is not classifie However, since the produc sheet with appropriate info Hazard classification and i <b>2. Label elements</b>	ed as hazardous pursua et contains hazardous s rmation, compliant to ( ndication:	substances in cond EU) Regulation 20 -	centrations such as to be d	leclared in section no. 3, it requires a safety data
However, since the product sheet with appropriate info Hazard classification and i <b>.2. Label elements</b> Hazard labelling pursuant	ed as hazardous pursua et contains hazardous s rmation, compliant to ( ndication:	substances in cond EU) Regulation 20 -	centrations such as to be d	leclared in section no. 3, it requires a safety data
The product is not classifie However, since the produc sheet with appropriate info Hazard classification and i <b>2. Label elements</b> Hazard labelling pursuant Hazard pictograms:	ed as hazardous pursua at contains hazardous s rmation, compliant to ( ndication: to EC Regulation 1272   Safety data shee Contains: F 2	substances in cond EU) Regulation 20 - 2/2008 (CLP) and s 2/2008 (CLP)	centrations such as to be d 020/878. subsequent amendments an	leclared in section no. 3, it requires a safety data nd supplements. zolin-3-one [EC no. 247-500-7] and

ΕN



**KRAFT TOTAL PROOF PU Fiber 25** 

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 2 / 11

#### SECTION 2. Hazards identification ... / >>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

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

#### 3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
TITANIUM DI	OXIDE		
INDEX		5≤x< 9	
EC	236-675-5		
CAS	13463-67-7		
REACH Reg.	01-2119489379-1	17-0000	01-2119489379-17-0197 01-2119489379-17
1-isopropyl-2	,2-dimethyltrimeth	ylene diisobutyrate	
INDEX		0,5 ≤ x < 1	Repr. 2 H361d
EC	229-934-9		
CAS	6846-50-0		
•	01-2119451093-4		
1,2-Benzisotl	niazol-3(2H)-one (E	ECHA)	
INDEX	613-088-00-6	0 ≤ x < 0,05	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317,
			Aquatic Acute 1 H400 M=1
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
CAS	2634-33-5		LD50 Oral: 1150 mg/kg
REACH Reg.			
•	niazol-3(2H)-one (E	,	
INDEX	613-088-00-6	0 ≤ x < 0,05	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
			Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
CAS	2634-33-5		LD50 Oral: 1150 mg/kg, STA Inhalation mists/powders: 0,051 mg/l
0	01-2120761540-6		
	ss of: 5-chloro-2-n	nethyl-4-isothiazolin-	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3:1)	040 407 00 5	0.4	Acute Terr O 1040, Acute Terr O 1000, Acute Terr O 1004, Okin Ocum 40
INDEX	613-167-00-5	0 ≤ x < 0,0015	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C
			H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100,
EC	C11 011 F		Aquatic Chronic 1 H410 M=100, EUH071
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥
CAS	55965-84-9		0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
040	55905-64-9		STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0.501 mg/l
REACH Reg.	01-2120764691-4	19	0,001 119/1
REACH Rey.	01-2120704091-4	-0	

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

## **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



# KRAFT TOTAL PROOF PU Fiber 25

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 3 / 11

# **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).

## **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 data sheet) 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 data sheet. 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



**KRAFT TOTAL PROOF PU Fiber 25** 

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 4 / 11

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

#### 8.1. Control parameters

egulatory refe	erences:									
GR	Бълга	рия		НАРЕЛБА	№ 13 OT 30 Л	-кември 200	3 Г. ЗА ЗАЩИТ	α μα ράδωτε		PUCKOBE
	DBind	(prin					1ЧНИ АГЕНТИ		•	
	Davita	chland		Януари 20: -	/		Warte Liste 000			
EU	Deuts	chiand					Werte-Liste 202 offe Mitteilung 5		natskommis	sion zur
BRC	Ελλάδ	δα	I	⊓.∆. 26/202	20 (ФЕК 50/A` 6	6.3.2020) Evαρ	μόνιση της ελλη	νικής νομοθεσί		
							2019/983/EE «γ υν εργαζομένων			
						•	ν εργαζομενων γόνους παράγο	-	-	
ROU	Româ	inia	ł	Hotărârea i	nr. 53/2021 pen	tru modificarea	hotărârii guverr	ului nr. 1.218/2		n și pentru
BR	Linitor	d Kingdom			, .	-	rnului nr. 1.093/2 ourth Edition 202			
				ACGIH 202				20)		
eaction mas	s of: 5-chlo	oro-2-meth	vl-4-is	othiazolir	n-3-one IEC no	. 247-500-71 ar	nd 2-methyl-2H	-isothiazol-3-	one IEC no	
220-:	239-6] (3:1)								•	
hreshold Lin			A /OI-					N		
Туре	Count	ry IVV/ mg/i	A/8h m3	nnm	STEL/15 mg/m3		Remarks / C	bservations		
AGW	DEU	0,05		ppm	mg/ms	ppm	SKIN			
redicted no- Normal valu			FNEC	•				0.014	mg/l	
								- ) -	0	
Normal valu Normal valu			aont					0,0014 1,15	mg/l mg/kg	
Normal valu				ht				0,115	mg/kg	
lealth - Deriv								0,110	iiig/kg	
		Effects on					Effects on wo	rkers		
Route of ex	posure	Acute	Acu	ite	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
		local	syst	temic	local	systemic		systemic	local	systemic
Oral					VND	18,8 mg/kg bw/d				
Inhalation					VND	32,6			VND	110
Obla						mg/m3				mg/m3
Skin					VND	18,8 mg/kg bw/d			VND	31,2 mg/kg
										bw/d
broobold	ait Volue				TITANI	JM DIOXIDE				
hreshold Lin		T\//	A/8h		STEL/15	min	Remarks / C	beenvetiene		
Туре	Count	ry ivv/ mg/i		ppm	mg/m3	ppm	Remarks / C	user valions		
TLV	BGR	10		Phili	ing/ino	ppin	RESP			
MAK	DEU	0,3			2,4		RESP	Hinweis		
TLV	GRC	5,0		10	<b>_</b> , ·			1		
	00			. 🗸						

Legend:

TLV

WEL

WEL TLV-ACGIH ROU

GBR

GBR

10

10

4

0,2

(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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

INHAL

RESP

RESP

15

#### 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



# **KRAFT TOTAL PROOF PU Fiber 25**

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 5 / 11

#### SECTION 8. Exposure controls/personal protection ... / >>

well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): 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 I 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 ISO 16321).

RESPIRATORY PROTECTION

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. 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).

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.

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

#### 9.1. Information on basic physical and chemical properties

Ň	liquid		Temperature: 25 °C
	white		Temperature: 25 °C
(	characteristi	С	
r	not available	)	
r	not available	)	
r	not available	)	
r	not available	)	
r	not available	)	
> (	60 °C		
r	not available	)	
I	not available	)	
1	8,0-9,2		Concentration: 100 %
			Temperature: 25 °C
:	2070-3350 n	nm2/s	Method:Converting Formula from Dynami
			Viscosity & Density
			Temperature: 25 °C
	120-135 KU		Method:ASTM D 562-05
			Temperature: 25 °C
r	not available	)	
r	not available	)	
r	not available	)	
	1,30-1,40	g/cm3	Method:ISO 2811
			Temperature: 25 °C
r	not available	)	
1	not applicabl	le	
	>	not available not available not available not available not available of °C not available 8,0-9,2 2070-3350 m 120-135 KU not available not available 1,30-1,40 not available	not available not available not available not available of °C not available s,0-9,2 2070-3350 mm2/s 120-135 KU not available not available not available 1,30-1,40 g/cm3 not available

9.2.1. Information with regard to physical hazard classe

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F)

62,43 %



# KRAFT TOTAL PROOF PU Fiber 25

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 6 / 11

# **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**

#### 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: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)
1,2-Benzisothiazol-3(2H)-one (ECHA)	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	1150 mg/kg Mouse
1,2-Benzisothiazol-3(2H)-one (BW20)	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	1150 mg/kg Mouse
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin- (3:1)	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3.1) LD50 (Dermal):	1000 mg/kg Rat
STA (Dermal):	50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP
OTA (Bernar).	(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	550 mg/kg Rat
	5 5
LC50 (Inhalation vapours):	0,31 mg/l Rat



# **KRAFT TOTAL PROOF PU Fiber 25**

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 7 / 11

SECTION 11. Toxicological information .../>>

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation vapours):	> 0,12 mg/l/6h Rat
TITANIUM DIOXIDE	

LD50 (Oral):

> 10000 mg/kg 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**

May produce an allergic reaction. Contains: Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 1,2-Benzisothiazol-3(2H)-one (ECHA)

#### 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

**STOT - SINGLE EXPOSURE** 

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

**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

1,2-Benzisothiazol-3(2H)-one (ECHA) LC50 - for Fish EC50 - for Algae / Aquatic Plants	0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)
1,2-Benzisothiazol-3(2H)-one (BW20)	
LC50 - for Fish	0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα)
EC50 - for Algae / Aquatic Plants	4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)



**KRAFT TOTAL PROOF PU Fiber 25** 

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 8 / 11

#### SECTION 12. Ecological information ... / >>

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 0,58 mg/l/96h 0,161 mg/l/72h 0,032 mg/l 96h
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	> 7,49 mg/l/72h > 6 mg/l > 1,46 mg/l
12.2. Persistence and degradability	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one NOT rapidly degradable TITANIUM DIOXIDE	EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 30 %, Exposure time: 28 d, OECD Test Guideline 301B
Solubility in water	< 0,001 mg/l
Degradability: information not available	
12.3. Bioaccumulative potential	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: n-octanol/water BCF	4,04 Log Kow 1,95
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 ≥ 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. Neat product residues should be considered special non-hazardous waste. 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



**KRAFT TOTAL PROOF PU Fiber 25** 

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 9 / 11

### SECTION 14. Transport information ... / >>

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

None

Point 75

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

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  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 Information not available

#### 15.2. Chemical safety assessment

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

# **SECTION 16. Other information**

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

Repr. 2	Reproductive toxicity, category 2
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3

@EPY 11.6.1 - SDS 1004.14



# **KRAFT TOTAL PROOF PU Fiber 25**

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 10 / 11

#### SECTION 16. Other information ... / >>

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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 labeling 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

#### 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 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)



**KRAFT TOTAL PROOF PU Fiber 25** 

Revision nr.1 Dated 04/04/2024 First compilation Printed on 04/04/2024 Page n. 11 / 11

#### SECTION 16. Other information ... / >>

- 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)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 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.