

KRAFT TOTAL PROOF POLYUREA Comp.-A

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Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: CK352010001 Product name KRAFT TOTAL PROOF POLYUREA Comp.-A UFI : 15W1-Y0TW-X00E-KQS3 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use High performance, 2K cold-applied elastomeric waterproofing polyurea menbrane 1.3. Details of the supplier of the safety data sheet DRUCKFARBEN HELLAS SA Name Full address MEGARIDOS AVENUE District and Country 19300 **ASPROPYRGOS** (ATTIKI) GREECE Tel. +30 210 5519500 Fax +30 210 5519501 e-mail address of the competent person responsible for the Safety Data Sheet psafety@druckfarben.gr 1.4. Emergency telephone number For urgent inquiries refer to 0030-210-7793777

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:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

2.2. Label elements

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

Hazard pictograms:



Signal words:

H317

Danger

Hazard statements: H226 H304

Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

@ EPY 11.7.2 - SDS 1004.14



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SECTION 2. Hazards identification ... / >>

Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Safety data sheet available on request.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do NOT induce vomiting.
IF SWALLOWED: immediately call a POISON CENTER or a doctor
In case of fire: use alcohol resistant foam to extinguish.
Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local / national / international regulations.
Keep out of reach of children.
If medical advice is needed, have product container or label at hand.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing / eye protection / face protection.
Call a POISON CENTRE / doctor, if you feel unwell.
Hydrocarbons, C9, aromatics Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate XYLENE (reaction mass of ethylbenzene and xylene) Diethyl maleate

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 $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.

3.2. Mixtures			
Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
	OXIDE		
INDEX		$9 \le x < 30$	
EC	236-675-5		
CAS	13463-67-7		
REACH Reg.	01-2119489379-	17-0000	01-2119489379-17-0197 01-2119489379-17
	, N,N'-(methylene		liyl)bis-, 1,1',4,4'-tetraethyl ester
INDEX	607-521-00-8	9≤x< 25	Skin Sens. 1A H317, Aquatic Chronic 3 H412
EC	429-270-1		
CAS	136210-30-5		
REACH Reg.	01-0000017556-	64-0000	
Barium Sulfa	te Precipitated		
INDEX		$9 \le x < 30$	
EC			
CAS	7727-43-7		
REACH Reg.	01-2119491274-	35	
Hydrocarbon	s, C9, aromatics		
INDEX		9≤x< 10	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P
EC	918-668-5		
CAS	64742-95-6		
REACH Reg.	01-2119455851-	35-0001 01-2119486	3773-24 01-2119455851-35
XYLENE (read	ction mass of ethy	ylbenzene and xyler	ne)
INDEX		5≤x< 9	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412
EC CAS	905-588-0		ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
			@EPY 11.7.2 - SDS 1004.14



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	omposition/info	rmation on ingred	lients/>>
ECTION 3. C	omposition/into		
REACH Reg.	01-2119486136-	34 01-2119539452-4	0 01-2119539452-40-0055 01-2119485493-29
Diethyl malea	ate		
INDEX		0 < x < 0,5	Skin Sens. 1 H317
EC	205-451-9		
CAS	141-05-9		
REACH Reg.	01-2119472130-	52-0000	
Xylene			
INDEX	601-022-00-9	0 < x < 0,5	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304 STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C
EC	215-535-7		LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11 mg/l/4h
CAS	1330-20-7		
REACH Reg.	01-2119488216-	32	
n-Butyl Aceta	ate		
INDEX	607-025-00-1	0 < x < 0,5	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1		•
20	204-030-1		
CAS	204-658-7 123-86-4		
CAS	123-86-4	29-0007 01-21194854	193-29-0005 01-2119485493-29-0003 01-2119485493-29
CAS REACH Reg.	123-86-4 01-2119485493-		493-29-0005 01-2119485493-29-0003 01-2119485493-29 peridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
CAS REACH Reg. Reaction ma	123-86-4 01-2119485493-	6- pentamethyl-4-pip	eridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic
CAS REACH Reg. Reaction mas INDEX	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,	6- pentamethyl-4-pip	eridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic
CAS REACH Reg. Reaction mas INDEX EC CAS	123-86-4 01-2119485493 ss of: Bis(1,2,2,6,0 915-687-0 1065336-91-5	6- pentamethyl-4-pip	veridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
CAS REACH Reg. Reaction mai INDEX EC CAS REACH Reg.	123-86-4 01-2119485493 ss of: Bis(1,2,2,6,0 915-687-0 1065336-91-5	 6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 	veridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1-	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304-	 6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 	veridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
CAS REACH Reg. Reaction mai INDEX EC CAS REACH Reg.	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te	veridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 804-40-0002
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,0 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te	veridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 804-40-0002
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,0 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te	eridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 804-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5	eridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 804-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS REACH Reg.	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5	 Beridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 B04-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336 B79129
CAS REACH Reg. Reaction mas INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS REACH Reg. ETHYLBENZI INDEX	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791 ENE	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5	 Beridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 B04-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336 B79129 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,
CAS REACH Reg. Reaction mas INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS REACH Reg. ETHYLBENZI INDEX EC	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,0 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791 ENE 601-023-00-4	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5	 Beridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 B04-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336 B79129 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS REACH Reg. ETHYLBENZ	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791 ENE 601-023-00-4 202-849-4 100-41-4	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5	 Beridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 B04-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336 Fiam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412
CAS REACH Reg. Reaction mat INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS REACH Reg. ETHYLBENZI INDEX EC CAS	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791 ENE 601-023-00-4 202-849-4 100-41-4	6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5	 Beridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 B04-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336 Fiam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412
CAS REACH Reg. Reaction mas INDEX EC CAS REACH Reg. 2-Methoxy-1- INDEX EC CAS REACH Reg. ETHYLBENZI INDEX EC CAS Quartz (Cryst	123-86-4 01-2119485493- ss of: Bis(1,2,2,6,1 915-687-0 1065336-91-5 01-2119491304- Methylethyl Aceta 607-195-00-7 203-603-9 108-65-6 01-21194575791 ENE 601-023-00-4 202-849-4 100-41-4	 6- pentamethyl-4-pip 0,1 ≤ x < 0,25 40-0000 01-21194913 te 0 < x < 0,5 40-0015 01-2119475 0 < x < 0,5 	 Beridyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 B04-40-0002 Flam. Liq. 3 H226, STOT SE 3 H336 F79129 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412 LC50 Inhalation vapours: 17,2 mg/l/4h

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this



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SECTION 4. First aid measures ... / >>

product.

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

IF SWALLOWED: immediately call a POISON CENTER or a doctor

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.



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SECTION 7. Handling and storage ... / >>

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory ref	erences:	
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	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής 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 εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»
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
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; 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 2023

Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00013	mg/l
Normal value in marine water	0,000013	mg/l
Normal value for fresh water sediment	0,21	mg/kg
Normal value for marine water sediment	0,02	mg/kg
Normal value of STP microorganisms	31,1	mg/l
Normal value for the food chain (secondary poisoning)	NEA	
Normal value for the terrestrial compartment	0,1	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

	Effects or	n consumers			Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic	
	local	systemic	local	systemic		systemic	local	systemic	
Oral	NPI	1.4	NPI	1.4					
		mg/kg bw/d		mg/kg bw/d					
Inhalation	NPI	4.8	NPI	4.8	VND	112	VND	28	
		mg/m3		mg/m3		mg/m3		mg/m3	
Skin	VND	1.4	VND	1.4	VND	NPI	VND	4	
		mg/kg bw/d		mg/kg bw/d	l			mg/kg/d	

				Xylene			
hreshold Lim	it Value						
Туре	Country	TWA/8h		STEL/15mi	n	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	221	50	442	100	SKIN	
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
TLV	GRC	435	100	650	150		
TLV	ROU	221	50	442	100	SKIN	
пдк	RUS	50		150		П	
WEL	GBR	220	50	441	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		



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

	Quartz (Crystalline Silica)									
Threshold Lim	hreshold Limit Value									
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	ROU	0,1				RESP				
OEL	EU	0,1				RESP				
TLV-ACGIH	1	0,025				RESP				

2-Methoxy-1-Methylethyl Acetate

	2-Methoxy-1-Methylethyl Acetate												
Threshold Lir	Threshold Limit Value												
Туре	Country	TWA/8h		STEL/15mi	n	Remarks / Observations							
		mg/m3	ppm	mg/m3	ppm								
TLV	BGR	275	50	550	100	SKIN							
AGW	DEU	270	50	270	50								
MAK	DEU	270	50	270	50								
TLV	GRC	275	50	550	100								
TLV	ROU	275	50	550	100	SKIN							
ПДК	RUS			10		П							
WEL	GBR	274	50	548	100	SKIN							
OEL	EU	275	50	550	100	SKIN							

	Barium Sulfate Precipitated									
Threshold Limit	Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	BGR	10								
MAK	DEU	0,3				INHAL				
MAK	DEU	0,3		1,6		RESP Hinweis				
WEL	GBR	10				INHAL				
WEL	GBR	4				RESP				
TLV-ACGIH		5				INHAL				

					Hydrocar	bons, C9, arom	natics				
Threshold Limit	Value										
Туре	Count	ry TV	VA/8h			STEL/15min		Rema	arks / Observa	itions	
		mg	g/m3	ppm		mg/m3	ppm				
TLV	GRC	10	00								
Health - Derived	no-effect	t level - D	NEL / DME	L							
		Effects or	n consumers	6			Effects	on work	ers		
Route of expos	sure	Acute	Acute		Chronic	Chronic	Acute le	ocal	Acute	Chronic	Chronic
		local	systemi	2	local	systemic			systemic	local	systemic
Oral					VND	11					
						mg/kg/d					
Inhalation					VND	32				VND	150
						mg/m3					mg/m3
Skin					VND	11				VND	25
						mg/kg/d					mg/kg/d



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

				n-B	utyl Acetate					
hreshold Limit Va										
Туре	Country	TWA/8h			STEL/15min		Remai	ks / Observa	itions	
		mg/m3	ppm		mg/m3	ppm				
TLV	BGR	275	50		550	100	SKIN			
AGW	DEU	270	50		270	50				
MAK	DEU	270	50		270	50				
TLV	GRC	275	50		550	100				
TLV	ROU	275	50		550	100	SKIN			
пдк	RUS				10			П		
WEL	GBR	274	50		548	100	SKIN			
OEL	EU	275	50		550	100	SKIN			
Predicted no-effect	t concentra	ation - PNE	С							
Normal value in	fresh water							0,635	mg/l	
Normal value in	marine wate	ər						0,0635	ml/l	
Normal value for fresh water sediment							3,29	mg/kg		
Normal value for marine water sediment							0,329	mg/kg		
Normal value for water, intermittent release								6,35	mg/l	
Normal value of	STP microo	organisms						100	mg/l	
lealth - Derived n	o-effect lev	el - DNEL /	DMEL							
	Effe	cts on consi	umers			Effect	ts on worke	ers		
Route of exposu	ire Acu	te Ac	ute	Chronic	Chronic	Acute	local	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic			systemic	local	systemic
Oral		-		VND	1,67			-		-
					mg/kg					
Inhalation				VND	33	553,5	i	VND	VND	275
					mg/m3	mg/m	13			mg/m3
Skin				VND	54,8	2			VND	153,5
					mg/kg					mg/kg

	TITANIUM DIOXIDE					
Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15mir	1	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	10				RESP
MAK	DEU	0,3		2,4		RESP Hinweis
TLV	GRC		10			
TLV	ROU	10		15		
ПДК	RUS	10				а, Ф
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		0,2				RESP

ETHYLBENZENE							
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15mi	n	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	435		545		SKIN	
AGW	DEU	88	20	176	40	SKIN	
MAK	DEU	88	20	176	40	SKIN	
TLV	GRC	435	100	545	125		
TLV	ROU	442	100	884	200	SKIN	
пдк	RUS	50		150		П	
WEL	GBR	441	100	552	125	SKIN	
OEL	EU	442	100	884	200	SKIN	
TLV-ACGIH		87	20				

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

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.



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SECTION 8. Exposure controls/personal protection/>>

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. The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	Temperature: 25 °C
Colour	white	Temperature: 25 °C
Odour	characteristic of solvent	Concentration: 100 %
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	23 ≤ T ≤ 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	Reason for missing data:substance/mixture is
		non-soluble (in water)
Kinematic viscosity	535-1250 mm2/s	Method:Converting Formula from Dynamic
		Viscosity & Density
		Temperature: 25 °C
Dynamic viscosity	85-105 KU	Method:ASTM D 562-05
		Temperature: 25 °C
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,84-1,86 g/cm3	Method:ISO 2811
		Temperature: 25 °C
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



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SECTION 9. Physical and chemical properties ... / >>

Total solids (250°C / 482°F)

83.50 %

Method:ISO 3251 Temperature: 25 °C

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-Methoxy-1-Methylethyl Acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

n-Butyl Acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

Xylene

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

2-Methoxy-1-Methylethyl Acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

n-Butyl Acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents,strong bases,strong acids.

2-Methoxy-1-Methylethyl Acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

n-Butyl Acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

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

2-Methoxy-1-Methylethyl Acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

n-Butyl Acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure



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SECTION 11. Toxicological information .../>>

Xylene

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

2-Methoxy-1-Methylethyl Acetate

WORKERS: inhalation; contact with the skin.

n-Butyl Acetate

WORKERS: inhalation; contact with the skin.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Xylene

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

2-Methoxy-1-Methylethyl Acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

n-Butyl Acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (IspesI). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

Xylene

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	>2000 mg/kg

Aspartic acid, N,N'-(methylenedi-4,1-cycl	lohexanediyl)bis-, 1,1',4,4'-tetraethyl ester
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation vapours):	> 4,244 mg/l/4h Rat
XYLENE (reaction mass of ethylbenzene	and xylene)
LD50 (Dermal):	12126 mg/kg Rabbit
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
	(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	3523 mg/kg Rat
LC50 (Inhalation vapours):	27,124 mg/l/4h Rat
ATE (Inhalation vapours):	11 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)
Xylene	
LD50 (Dermal):	1100 mg/kg Rabbit
LD50 (Oral):	3523 mg/kg Rat
LC50 (Inhalation vapours):	11 mg/l/4h Rat



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SECTION 11. Toxicological information ... / >>

2-Methoxy-1-Methylethyl Acetate LD50 (Dermal): LD50 (Oral):	> 5000 mg/kg Rat 8530 mg/kg Rat
Barium Sulfate Precipitated LD50 (Oral):	> 3000 mg/kg Mouse
Hydrocarbons, C9, aromatics LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 3400 mg/kg Rabbit > 6800 mg/kg Rat > 10,2 mg/l/4h
n-Butyl Acetate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 5000 mg/kg Rat 13100 mg/kg Rat > 21 mg/l Rat
TITANIUM DIOXIDE LD50 (Oral):	> 10000 mg/kg Rat
ETHYLBENZENE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	15354 mg/kg Rabbit 3500 mg/kg Rat 17,2 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Xylene

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

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

Toxic for aspiration



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SECTION 11. Toxicological information ... / >>

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

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

12.1. Toxicity

Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea XYLENE (reaction mass of ethylbenzene and xylene) LC50 - for Fish EC50 - for Algae / Aquatic Plants Hydrocarbons, C9, aromatics	 1,1',4,4'-tetraethyl ester 66 mg/l/96h Danio rerio (Ζεβρόψαρο) 88,6 mg/l/48h Daphnia Magna 113 mg/l/72h scenedesmus subspicatus 0,01 mg/l Daphnia Magna 21 days 18 mg/l/96h Fresh Water Fish 1,3 mg/l/72h Algae
LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	> 1 mg/l/96h > 1 mg/l/48h > 1 mg/l/72h
12.2. Persistence and degradability	
Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis NOT rapidly degradable	., 1,1',4,4'-tetraethyl ester
Xylene Solubility in water Rapidly degradable	100 - 1000 mg/l
2-Methoxy-1-Methylethyl Acetate Solubility in water Rapidly degradable	> 10000 mg/l
Barium Sulfate Precipitated Solubility in water Degradability: information not available	0,1 - 100 mg/l
Hydrocarbons, C9, aromatics Rapidly degradable	
n-Butyl Acetate Solubility in water Rapidly degradable	> 10000 mg/l
TITANIUM DIOXIDE Solubility in water Degradability: information not available	< 0,001 mg/l
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l
12.3. Bioaccumulative potential	
Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis Partition coefficient: n-octanol/water BCF	-, 1,1',4,4'-tetraethyl ester 5,16 Log Kow 1872 -
Xylene Partition coefficient: n-octanol/water BCF	3,12 25,9



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SECTION 12. Ecological information ... / >> 2-Methoxy-1-Methylethyl Acetate Partition coefficient: n-octanol/water 1,2 n-Butyl Acetate Partition coefficient: n-octanol/water 1,2

ETHYLBENZENE Partition coefficient: n-octanol/water

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%.

3,6

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. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1866

14.2. UN proper shipping name

ADR / RID:	RESIN SOLUTION
IMDG:	RESIN SOLUTION
IATA:	RESIN SOLUTION

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3

14.4. Packing group

ADR / RID, IMDG, IATA: III





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Tunnel restriction code: (D/E)

Packaging instructions: 366 Packaging instructions: 355 ΕN

SECTION 14. Transport information ... / >>

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	not marine pollutant
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special provision: -	Limited Quantities: 5 It
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 It
IATA:	Cargo:	Maximum quantity: 220 L
	Passengers:	Maximum quantity: 60 L
	Special provision:	A3

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:

P5c

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

FIDUUCL	
Point	3 - 40
Contained substance	
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

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.

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4



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SECTION 16. Other information ... / >>

H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.	H411 H412	Toxic to aquatic life with long lasting effects. Harmful 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 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



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SECTION 16. Other information ... / >>

- 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)
- 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
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- The Merck Index. 10th Edition
- The Merck Index. Touri Edito
- 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.



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Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

 Code:
 CK35201AR00

 Product name
 KRAFT TOTAL PROOF POLYUREA AR Comp.-B

UFI :

6NV1-X0PJ-300F-MP8Q

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

Intended use

High performance, 2K cold-applied elastomeric waterproofing, aromatic polyurea menbrane (Hardener)

1.3. Details of the supplier of the safety data sheet

	Name Full address		RBEN HELLAS SA DS AVENUE	
	District and Country	19300	ASPROPYRGOS GREECE	(ΑΤΤΙΚΙ)
		Tel.	+30 210 5519500	
		Fax	+30 210 5519501	
	e-mail address of the competent person			
	responsible for the Safety Data Sheet	psafety@di	ruckfarben.gr	
1.4	. Emergency telephone number			

For urgent inquiries refer to

0030-210-7793777

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:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	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:

Danger



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SECTION 2. Hazards identification ... / >>

Hazard statements:	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
EUH204	Contains isocyanates. May produce an allergic reaction.
Precautionary statements:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: immediately call a POISON CENTER or a doctor
P370+P378	In case of fire: use alcohol resistant foam to extinguish.
P501	Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local /
	national / international regulations.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P312	Call a POISON CENTRE / doctor, if you feel unwell.
Contains:	XYLENE (reaction mass of ethylbenzene and xylene)
	HDI oligomers, isocyanurate
	Aromatic polyisocyanate prepolymer

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 $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains: Identification x = Conc. %Classification (EC) 1272/2008 (CLP) Aromatic polyisocyanate prepolymer Eye Irrit. 2 H319, Skin Sens. 1 H317 INDEX $50 \le x \le 100$ EC CAS XYLENE (reaction mass of ethylbenzene and xylene) INDEX 10 < x < 20Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412 EC 905-588-0 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l CAS REACH Reg. 01-2119486136-34 01-2119539452-40 01-2119539452-40-0055 01-2119485493-29 n-Butyl Acetate INDEX 607-025-00-1 $9 \le x \le 10$ Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 EC 204-658-1 CAS 123-86-4 REACH Reg. 01-2119485493-29-0007 01-2119485493-29-0005 01-2119485493-29-0003 01-2119485493-29 HDI oligomers, isocyanurate INDEX $1 \le x \le 5$ Acute Tox. 4 H332, STOT SE 3 H335, Skin Sens. 1 H317 EC 931-274-8 ATE Inhalation mists/powders: 1,5 mg/l, ATE Inhalation vapours: 11 mg/l CAS 28182-81-2 REACH Reg. 01-2119485796-17-0000, 01-2119485796-17-0002 01-2119485796-17-0001 01-2119485796-17-0012

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SECTION 3. Composition/information on ingredients/>>

m-lolylidene	Diisocyanate		
INDEX	615-006-00-4	0 < x < 0,1	Carc. 2 H351, Acute Tox. 1 H330, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE
			3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC	247-722-4		Resp. Sens. 1 H334: ≥ 0,1%
CAS	26471-62-5		LC50 Inhalation vapours: 0,48 mg/l/1h
REACH Reg.	01-2119454791-	34-0001 01-21194547	791-34-0006 01-2119454791-34-0007

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF SWALLOWED: immediately call a POISON CENTER or a doctor

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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.



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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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

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	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
GRC	Ελλάδα	Π.Δ. 2δ/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής 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 εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»
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
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"

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91/322/EEC.

SECTION 8. Exposure controls/personal protection/>>

GBR EU United Kingdom OEL EU

EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2022/431; 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

				n-E	Butyl Acetate					
Threshold Lim	nit Value									
Туре	Country	TWA/8h			STEL/15min		Rema	rks / Observa	ations	
		mg/m3	ppm		mg/m3	ppm				
TLV	BGR	275	50		550	100	SKIN			
AGW	DEU	270	50		270	50				
MAK	DEU	270	50		270	50				
TLV	GRC	275	50		550	100				
TLV	ROU	275	50		550	100	SKIN			
пдк	RUS				10			П		
WEL	GBR	274	50		548	100	SKIN			
OEL	EU	275	50		550	100	SKIN			
Predicted no-e	effect concen	tration - PNE	C							
Normal valu	e in fresh wat	er						0,635	mg/l	
Normal valu	e in marine w	ater						0,0635	ml/l	
Normal valu	e for fresh wa	ter sediment						3,29	mg/kg	
Normal value for marine water sediment								0,329	mg/kg	
Normal valu	e for water, in	termittent rele	ease					6,35	mg/l	
Normal valu	e of STP mici	oorganisms						100	mg/l	
lealth - Derive	ed no-effect l	evel - DNEL	DMEL						0	
	E	fects on cons	umers			Effect	s on worke	ers		
Route of exp	posure A	cute Ad	cute	Chronic	Chronic	Acute	local	Acute	Chronic	Chronic
	lo	cal sy	stemic	local	systemic			systemic	local	systemic
Oral				VND	1,67			2		
					mg/kg					
Inhalation				VND	33	553,5		VND	VND	275
					mg/m3	mg/m				mg/m3
Skin				VND	54,8	Ŭ			VND	153,5
					mg/kg					mg/kg

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

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

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, permeability time. 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. 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

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Page n. 6 / 12 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 Properties Value Information Temperature: 25 °C Appearance liauid Colour transparent Temperature: 25 °C characteristic of solvent Odour Concentration: 100 % Melting point / freezing point not available Initial boiling point not available not available Flammability Lower explosive limit not available Upper explosive limit not available Flash point 23 ≤ T ≤ 60 °C Auto-ignition temperature not available Decomposition temperature not available not available pН Reason for missing data:substance/mixture is non-soluble (in water) Kinematic viscosity 170-553 mm2/s Method:Converting Formula from Dynamic Viscosity Density & Temperature: 25 °C Dynamic viscosity 50-70 KU Method:ASTM D 562-05 Temperature: 25 °C Solubility not available Partition coefficient: n-octanol/water not available not available Vapour pressure Density and/or relative density 1,04-1,06 Method:ISO 2811 g/cm3 Temperature: 25 °C not available Relative vapour density 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

Total solids (250°C / 482°F)

75,00 %

Method:ISO 3251 Temperature: 25 °C

SECTION 10. Stability and reactivity

10.1. Reactivity

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

n-Butyl Acetate Stable in normal conditions of use and storage. With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

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

m-Tolylidene Diisocyanate SADT = 230°C/446°F. 10.3. Possibility of hazardous reactions



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SECTION 10. Stability and reactivity ... / >>

The vapours may also form explosive mixtures with the air.

n-Butyl Acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

n-Butyl Acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

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

n-Butyl Acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

n-Butyl Acetate WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

n-Butyl Acetate

Above 100 ppm causes irritation of the eve, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 5 mg/l > 20 mg/l Not classified (no significant component) >2000 mg/kg
XYLENE (reaction mass of ethylbenzene and xyler	ne)
LD50 (Dermal):	12126 mg/kg Rabbit
ATE (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
	(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	3523 mg/kg Rat
LC50 (Inhalation vapours):	27,124 mg/l/4h Rat
ATE (Inhalation vapours):	11 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)
HDI oligomers, isocyanurate	
ATE (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)
ATE (Inhalation vapours):	11 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)



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SECTION 11. Toxicological information ... / >>

Aromatic polyisocyanate prepolymer LD50 (Dermal):

m-Tolylidene Diisocyanate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

n-Butyl Acetate LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): 0,48 mg/l/1h Rat > 5000 mg/kg Rat 13100 mg/kg Rat

> 21 mg/l Rat

> 9400 mg/kg RABBIT

> 9400 mg/kg Rabbit

4130 mg/kg Mouse

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

May cause respiratory irritation

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

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

XYLENE (reaction mass of ethylbenzene and xylene)	
LC50 - for Fish	18 mg/l/96h Fresh Water Fish
EC50 - for Algae / Aquatic Plants	1,3 mg/l/72h Algae

Aromatic polyisocyanate prepolymer Chronic NOEC for Crustacea

> 10 mg/l Daphnia magna



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SECTION 12. Ecological info	mation/>>		
m-Tolylidene Diisocyanate LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plant	18,3 mg/l/48h /	Dncorhynchus mykiss Americamysis bahia Chlorella vulgaris	
12.2. Persistence and degradabi	ity		
m-Tolylidene Diisocyanate Solubility in water	0,1 mg/l		
Entirely degradable			
n-Butyl Acetate Solubility in water Rapidly degradable	> 10000 mg/l		
12.3. Bioaccumulative potential			
m-Tolylidene Diisocyanate Partition coefficient: n-octanol/w	star 2.42		
	ater 3,43		
n-Butyl Acetate Partition coefficient: n-octanol/w	ater 1,2		
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

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. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID. IMDG. IATA: UN 1866

14.2. UN proper shipping name

ADR / RID:	RESIN SOLUTION
IMDG:	RESIN SOLUTION
IATA:	RESIN SOLUTION



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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)			
	ADR / RID:	Class: 3	Label: 3
	IMDG:	Class: 3	Label: 3
	IATA:	Class: 3	Label: 3

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	not marine pollutant
IATA:	NO

14.6. Special precautions for user

ADR / RID:

IMDG:

IATA:

HIN - Kemler: 30 Special provision: -EMS: F-E, <u>S-E</u> Cargo: Passengers: Special provision: Limited Quantities: 5 It

Limited Quantities: 5 It Maximum quantity: 220 L Maximum quantity: 60 L A3

P5c

Tunnel restriction code: (D/E)

Packaging instructions: 366 Packaging instructions: 355

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:

Product	ig to the product of contai	ned substances pursuant to Annex XVII to EC Regulation 1907/2006
Point	3 - 40	
Contained subst	ance	
Point	75	
Point	74	DIISOCYANATES

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



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SECTION 15. Regulatory information ... / >>

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.

SECTION 16. Other information

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

Flam. Lig. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eve 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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H220 H351	Suspected of causing cancer.
H330	Fatal if inhaled
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
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 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



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SECTION 16. Other information ... / >>

- 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)
- 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
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 24. Delegated Regulation (UE) 2023/1435 (XX 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.