

Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 1 / 17 Replaced revision:4 (Dated 17/09/2021)

Safety Data Sheet

According to Annex II to REACH - Regulation 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. 56D Product name EASY-LAST 901 8FV0-90JH-V00A-R4EQ UFI · 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Mono-component self-levelling waterproofing product 1.3. Details of the supplier of the safety data sheet Name NORD RESINE S.p.A. Full address Via Fornace Vecchia, 79 District and Country 31058 Susegana (TV) Italia Tel. +39 0438-437511 Fax +39 0438-435155 e-mail address of the competent person responsible for the Safety Data Sheet annabreda@nordresine.com Supplier: NORD RESINE S.p.A. 1.4. Emergency telephone number For urgent inquiries refer to +39 0438 437511 **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.
Eye irritation, category 2	H319	Causes serious eye irritation.
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:

Warning

Hazard statements:H226Flammable liquid and vapour.H319Causes serious eye irritation.H317May cause an allergic skin reaction.EUH204Contains isocyanates. May produce an allergic reaction.

@EPY 11.1.2 - SDS 1004.14

ΕN



NORD RESINE S.p.A.

56D - EASY-LAST 901

SECTION 2. Hazards identification .../>>

ΕN

P210 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: use carbon anhydride, foam, nebulized water to extinguish.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.
Contains:	1,6-hexanediyl-bis (2- (2- (1-ethylpentyl) -3-oxazolidinyl) ethyl) carbamate
	Reaction product of polypropilen oxide with toluendiisocyanate

One - pack performance coatings.	
VOC given in g/litre of product in a ready-to-use condition :	141,51
Limit value:	500,00

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.	.% Classifi	cation (EC) 1272/2008 (CLP)
Reaction prod	luct of polypropilen	oxide with toluendiiso	ocvanate
CAS	37273-56-6	25 ≤ x < 35	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC			
INDEX			
Reaction mas	s of ethylbenzene a	nd m-xylene and p-xyl	ene
CAS		$4 \le x < 8$	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, Classification note according to Annex VI to the CLP Regulation: C
EC INDEX	905-562-9		STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
REACH Reg.	01-2119555267-33		
0		pentyl) -3-oxazolidinyl)	ethvl) carbamate
CAS	140921-24-0	1≤x< 4	Skin Sens. 1 H317
EC	411-700-4		
INDEX	616-079-00-5		
REACH Reg.	01-0000015906-63		
2-METHOXY-1	-METHYLETHYL AG	CETATE	
CAS	108-65-6	1 ≤ x < 4	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
INDEX	607-195-00-7		
5	01-2119475791-29		
TITANIUM DIC			
CAS	13463-67-7	1 ≤ x < 4	EUH212
EC	236-675-5		
INDEX			
REACH Reg.			
N-BUTYL ACE		0 < 1 < 1	
CAS	123-86-4	0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC INDEX	204-658-1 607-025-00-1		
	01-2119485493-29		
Ų	S(2-ETHYLHEXANC		
CAS	67874-71-9	0≤x< 1	Repr. 2 H361d, Eye Dam. 1 H318, Skin Irrit. 2 H315
EC	267-499-7		Nepi. 2 1100 14, Lyd Dalli. 1 110 10, Skill IIII. 2 11313
INDEX	201-733-1		
REACH Reg.	01-2120796439-34		
READINGS.	01 2120100-09-04		
			⇐ EDV 11.1.2 EDC 100



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 3 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 3. Composition/information on ingredients/>>

TOSYL ISOC	YANATE		
CAS	4083-64-1	$0 \le x \le 1$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, EUH014
EC	223-810-8		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%, STOT SE 3 H335: ≥ 5%
INDEX	615-012-00-7		
REACH Reg.	01-2119980050-47		
M-TOLYLIDE	NE DIISOCYANATE		
CAS	26471-62-5	$0 \le x < 0,1$	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%
INDEX	615-006-00-4		LC50 Inhalation vapours: 0,48 mg/l
REACH Reg.	01-2119454791-34		
TOSYL CHL	ORIDE		
CAS	98-59-9	0 ≤ x < 1	Skin Corr. 1B H314, Eye Dam. 1 H318, EUH029
EC	202-684-8		EUH029: ≥ 0%
INDEX			
CHLOROBE	NZENE		
CAS	108-90-7	$0 \le x \le 1$	Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Irrit. 2 H315, Aquatic Chronic 2 H411
EC	203-628-5		LC50 Inhalation vapours: 15,5 mg/l/4h
INDEX	602-033-00-1		

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

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

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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. 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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe. Mitteilung 56
ESP	España	Límites de exposición profesional para agentes guímicos en España 2021
LJF	Lspana	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
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



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 5 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 8. Exposure controls/personal protection/>>

		την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

Reaction mass of ethylbenzene and m-xylene and p-xylene											
Threshold Limit Value											
Туре	Country	TWA/8h		STEL/15	STEL/15min		bservations)				
mg/m3 ppm mg/m3 ppm											
VLEP	ITA	221	50	442	100	SKIN					
OEL	EU	221	50	442	100	SKIN					
TLV-ACGIH		434	100	651	150						
Predicted no-effe	ct concentra	ation - PNEC	>								
Normal value in	n fresh water						0,25	mg/l			
Normal value in marine water 0,25 mg/l											
Normal value for	or marine wa	ter sediment					14,33	mg/kg			
Normal value for	or the terrestr	ial compartm	nent				2,41	mg/kg			



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 6 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 8. Exposure controls/personal protection/>>

2-METHOXY-1-METHYLETHYL ACETATE

nreshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	imin	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	49,14	550	100,1	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			
TLV	GRC	275	50	550	100				
AK	HUN	275		550					
GVI/KGVI	HRV	275	50	550	100	SKIN			
VLEP	ITA	275	50	550	100	SKIN			
TGG	NLD	550							
VLE	PRT	275	50	550	100	SKIN			
NDS/NDSCh	POL	260		520		SKIN			
TLV	ROU	275	50	550	100	SKIN			
MV	SVN	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
redicted no-effe	ct concentra	ation - PNE	С						
Normal value ir	n fresh water						0,635	mg/l	
Normal value ir	n marine wate	er					0,0635	mg/l	
Normal value for	or fresh water	r sediment					3,29	mg/kg	
Normal value for	or marine wat	ter sedimen	t				0,329	mg/kg	
Normal value for	or water, inter	rmittent rele	ase				6,35	mg/l	
Normal value of	f STP microo	rganisms					100	mg/l	
Normal value for	or the terrestr	ial comparti	ment				0,29	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral					1,67				
					mg/kg/d				
Inhalation					33				275
					mg/m3				mg/m3
Skin					54,8				153,5
					mg/kg/d				mg/kg/d

TITANIUM DIOXIDE

Threshold Limit	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	10				
VLEP	FRA	10				
TLV	GRC		10			
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
NDS/NDSCh	POL	10				INHAL
TLV	ROU	10		15		
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 7 1 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 8. Exposure controls/personal protection/>>

	N-BUTYL ACETATE									
Threshold Limit \	/alue									
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	950	196,65	1200	248,4					
AGW	DEU	300	62	600 (C)	124 (C)					
VLA	ESP	241	50	724	150					
VLEP	FRA	710	150	940	200					
TLV	GRC	710	150	950	200					
AK	HUN	241		723						
GVI/KGVI	HRV	241	50	723	150					
VLEP	ITA	241	50	723	150					
TGG	NLD	150								
VLE	PRT	241	50	723	150					
NDS/NDSCh	POL	240		720						
TLV	ROU	241	50	723	150					
MV	SVN	300	62	600	124					
WEL	GBR	724	150	966	200					
OEL	EU	241	50	723	150					
TLV-ACGIH			50		150					

BISMUTH TRIS(2-ETHYLHEXANOATE)

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,522 mg/	
Normal value in marine water	0,052 mg/	l
Normal value for fresh water sediment	9,23 mg/	kg/d
Normal value for marine water sediment	0,92 mg/	kg/d
Normal value of STP microorganisms	52,24 mg/	

Health - Derived no-effect level - DNEL / DMEL

	Effects of	n consumers			Effects on w	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,24 mg/kg bw/d				
Inhalation				0,21 mg/m3				0,85 mg/m3
Skin				0,24				0,48
				mg/kg bw/d				mg/kg
								bw/d

				TOSYL IS	SOCYANATE		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
GVI/KGVI	HRV	0,02		0,07		Kao NCO	
WEL	GBR	0,02		0,07		AS NCO	

M-TOLYLIDENE DIISOCYANATE							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	0,08	0,01	0,16	0,02		
NDS/NDSCh	n POL	0,007		0,021			
MV	SVN	0,035	0,005	0,035	0,005		

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

	CHLOROBENZENE						
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	25	6,8	70	19,04		
AGW	DEU	23	5	46	10		
MAK	DEU	23	5	46	10		
VLA	ESP	23	5	70	15		
VLEP	FRA	23	5	70	15		
TLV	GRC	23	5	70	15		
AK	HUN	23		70			
GVI/KGVI	HRV	23	5	70	15	SKIN	
VLEP	ITA	23	5	70	15		
TGG	NLD	23		70			
VLE	PRT	23	5	70	15		
NDS/NDSCh	POL	23		70			
TLV	ROU	23	5	70	15		
MV	SVN	23	5	69	15		
WEL	GBR	4,7	1	14	3	SKIN	
OEL	EU	23	5	70	15		
TLV-ACGIH		46	10				

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

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

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 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. 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

Properties

Appearance Colour Odour Melting point / freezing point Value viscous liquid white characteristic of solvent Not available Information



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

Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature pH Kinematic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density	Not available Not available Not available S1 °C Not available Not available Not available immiscible with water Not available Not available 1,51 kg/l
Density and/or relative density Relative vapour density Particle characteristics	1,51 kg/l Not available Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) :	9,37 % - 141,51	g/litre
VOC (volatile carbon)	7,47 % - 112,76	g/litre

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

Decomposes on contact with: water.

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

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

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.

Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 9 / 17 Replaced revision:4 (Dated 17/09/2021) ΕN



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

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.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

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

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 20 mg/l Not classified (no significant component) >2000 mg/kg
Reaction mass of ethylbenzene and m-xyler	ne and p-xylene
LD50 (Dermal):	12126 mg/kg Rabbit
STA (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/l Rat
LC50 (Inhalation vapours):	27,124 mg/l/4h Rat
STA (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)
2-METHOXY-1-METHYLETHYL ACETATE	
LD50 (Dermal):	> 5000 mg/kg Rat
LD50 (Oral):	8530 mg/kg Rat
TITANIUM DIOXIDE	
LD50 (Oral):	> 10000 mg/kg Rat



SECTION 11. Toxicological information ... / >>

N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

M-TOLYLIDENE DIISOCYANATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

CHLOROBENZENE LD50 (Oral): LC50 (Inhalation vapours): > 5000 mg/kg Rabbit > 6400 mg/kg Rat 21,1 mg/l/4h Rat

> 9400 mg/kg Rabbit 4130 mg/kg Mouse 0,48 mg/l Rat

> 2000 mg/kg Rat 15,5 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

Revision nr.5 Dated 06/03/2023

Printed on 07/03/2023 Page n. 11 / 17 Replaced revision:4 (Dated 17/09/2021)



SECTION 11. Toxicological information ... / >>

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

M-TOLYLIDENE DIISOCYANATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	133 mg/l/96h Oncorhynchus mykiss 18,3 mg/l/48h Americamysis bahia 4000 mg/l/72h Chlorella vulgaris
CHLOROBENZENE LC50 - for Fish	7,72 mg/l/96h Pimephales promelas
BISMUTH TRIS(2-ETHYLHEXANOATE) EC10 for Algae / Aquatic Plants	100 mg/l/72h
Reaction mass of ethylbenzene and m-xylene and LC50 - for Fish	p-xylene 2,6 mg/l/96h p-xilene
12.2. Persistence and degradability	
TITANIUM DIOXIDE Solubility in water Degradability: information not available	< 0,001 mg/l
2-METHOXY-1-METHYLETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
M-TOLYLIDENE DIISOCYANATE Solubility in water Entirely degradable	0,1 mg/l
CHLOROBENZENE Solubility in water NOT rapidly degradable	100 - 1000 mg/l
N-BUTYL ACETATE Solubility in water	1000 - 10000 mg/l
TOSYL ISOCYANATE Solubility in water Rapidly degradable	1000 - 10000 mg/l



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 13 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 12. Ecological information ... / >>

	BISMUTH TRIS(2-ETHYLHEXANOATE) Solubility in water Rapidly degradable	1,12 mg/l
	Reaction mass of ethylbenzene and m-xylene and p- Rapidly degradable	-xylene
12.3	3. Bioaccumulative potential	
	2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2
	M-TOLYLIDENE DIISOCYANATE Partition coefficient: n-octanol/water	3,43
	CHLOROBENZENE Partition coefficient: n-octanol/water	3
	N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
	TOSYL ISOCYANATE Partition coefficient: n-octanol/water	0,6
	Reaction mass of ethylbenzene and m-xylene and p- BCF	-xylene 25,9
12.4	4. Mobility in soil	
	CHLOROBENZENE Partition coefficient: soil/water	2,42
	N-BUTYL ACETATE Partition coefficient: soil/water	< 3

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



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 14 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 14. Transport information ... / >>

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1263

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

The product, if packaged in packages of less than 450 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

14.2. UN proper shipping name

ADR / RID:	PAINT or PAINT RELATED MATERIAL
IMDG:	PAINT or PAINT RELATED MATERIAL
IATA:	PAINT or PAINT RELATED MATERIAL

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: NO IATA: NO

14.6. Special precautions for user

ADR / RID:

IMDG:

IATA:

HIN - Kemler: 30 Special provision: 163, 367, 650 EMS: F-E, <u>S-E</u> Cargo: Pass.: Special provision: Limited Quantities: 5 L

1 1 1

Limited Quantities: 5 L Maximum quantity: 220 L Maximum quantity: 60 L A3, A72, A192 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

Seveso Category - Directive 2012/18/EU:		P5c	
Restrictions relating to t	the product or o	contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product			
Point	3 - 40		
Contained substance			
Point	75		
Point	52	DIISONONYL PHTHALATE REACH Reg.: 01-2119430798-28	



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 15 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 15. Regulatory information ... / >>

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

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \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:

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.

VOC (Directive 2004/42/EC) : One - pack performance coatings.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances N-BUTYL ACETATE $% \left({{\rm ACETATE}} \right)$

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3		
Carc. 2	Carcinogenicity, category 2		
Repr. 2	Reproductive toxicity, 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		
Skin Corr. 1B	Skin corrosion, category 1B		
Eye Dam. 1	Serious eye damage, category 1		
Eye Irrit. 2	Eye irritation, category 2		
STOT SE 3	Specific target organ toxicity - single exposure, category 3		
Resp. Sens. 1	Respiratory sensitization, category 1		
Skin Sens. 1	Skin sensitization, category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2		
H226	Flammable liquid and vapour.		
H351	Suspected of causing cancer.		
H361d	Suspected of damaging the unborn child.		
H330	Fatal if inhaled.		
H312	Harmful in contact with skin.		
H304	May be fatal if swallowed and enters airways.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H314	Causes severe skin burns and eye damage.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
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.		
H411	Toxic to aquatic life with long lasting effects.		
EUH014	Reacts violently with water.		
EUH029	Contact with water liberates toxic gas.		
EUH204	Contains isocyanates. May produce an allergic reaction.		
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.		



SECTION 16. Other information ... / >>

- 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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)
- 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.



Revision nr.5 Dated 06/03/2023 Printed on 07/03/2023 Page n. 17 / 17 Replaced revision:4 (Dated 17/09/2021)

SECTION 16. Other information ... / >>

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.