Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 1/22

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

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

Product name ADHESIVE FOR SPARE PARTS UFI: NHU0-H1JA-Q00P-3VCN

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

Intended use Polychloroprene based contact adhesive.

For professional and industrial use only.

Uses Advised Against Uses other than those stated.

1.3. Details of the supplier of the safety data sheet

Name CASTELANELLI FRANCESCO S.R.L. Full address VIA DELLE TERRE ROSSE 38

District and Country 16133 GENOVA (GE)

ITALIA

Tel. +39 010 3450548

e-mail address of the competent person

responsible for the Safety Data Sheet consulenzatecnica@trepini.it

1.4. Emergency telephone number

For urgent inquiries refer to

UNITED KINGDOM NHS 111 (24 hour service / 7 days a week)

IRELAND Members of Public: +353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (01) 809 2566 (24 hour service – 7 days a week)

MALTA Medicines & Poisons Info Office: (+356) 2545 6508

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 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Vory toxic to aquatic life

Hazardous to the aquatic environment, acute toxicity, category 1 H400 Very toxic to aquatic life.

Hazardous to the aquatic environment, chronic toxicity, category 1 H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:







Signal words:

Danger

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 2/22

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.
P333+P313 Wear protection or rash occurs: Get medical advice / attention.

P370+P378 In case of fire use to extinguish: carbon dioxide, foam, chemical powder.

Contains: FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL]

AND 4-METHYLPHENOL

ROSIN

CYCLOHEXANE ETHYL ACETATE

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 \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)

CYCLOHEXANE

CAS 110-82-7 30 ≤ x < 40 Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 EC 203-806-2 H336, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

INDEX 601-017-00-1

REACH Reg. 01-2119463273-41-xxxx

ETHYL ACETATE

CAS 141-78-6 20 ≤ x < 25 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5

REACH Reg. 01-2119475103-46-xxxx

ACETONE

CAS 67-64-1 7 ≤ x < 10 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 200-662-2 INDEX 606-001-00-8

REACH Reg. 01-2119471330-49-xxxx

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

CAS 64742-49-0 5 ≤ x < 8 Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3

EC 931-254-9 H336, Aquatic Chronic 2 H411

INDEX -

REACH Reg. 01-2119484651-34-xxxx

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL

CAS 26022-00-4 3 ≤ x < 5 Skin Sens. 1 H317

EC 607-846-5

INDEX -

ROSIN

CAS 8050-09-7 $1 \le x < 3$ Skin Sens. 1 H317

EC 232-475-7

INDEX 650-015-00-7

REACH Reg. 01-2119480418-32-xxxx

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 3/22

Replaced revision:11 (Dated: 15/03/2021)

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.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.

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

Treat symptomatically.

In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

6.1.1 For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Wear appropriate respirator when ventilation is inadequate.

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. Do not breathe fume/mist/vapours. Avoid leakage of the product into the environment. Non-emergency personnel must follow the appropriate internal procedures in case of accidental release.

6.1.2 For emergency responders

Block the leakage if there is no hazard. Evacuate unprotected and untrained personnel from hazard area. Wear suitable protective equipment. (see Section 8 of this Safety data sheet)

Follow the appropriate internal procedures in case of accidental release.

Keep fumes and vapours under control. Isolate hazard area and deny entry. Ventilate closed spaces before entering. Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 4/22

Replaced revision:11 (Dated: 15/03/2021)

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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation 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 pressurized. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. 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)

No use other than as indicated in section 1.2 of this safety data sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

AUS	Österreich	Consents Dealth consels if the Consense to consense 2004. Foreign consenses 47.00.0004
BEL		Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021 Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au
DEL	Belgique	travail
CZE	Česká Republika	
CZE	Ceska 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
DEO	Deutschland	Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung
		gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/A` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις
ONO	Emada	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"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai
	agy a. 0.02 ag	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
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa
		nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov
		pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 5/22

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

znení neskorších predpisov

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 – SVN Slovenija

ZVZD-1, 38/15, 78/18 in 78/19)

GBR United Kingdom OEL EU 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 91/322/EEC.

TLV-ACGIH **ACGIH 2021**

Туре	Country	TWA/8h		STEL/15min		Remark	s / Observations	3
•	•	mg/m3	ppm	mg/m3	ppm			
MAK	AUS	700	200	2800	800		Häufigk Schicht:	
VLEP	BEL	350	100					
TLV	CZE	700	200,2	2000	572			
AGW	DEU	700	200	2800	800			
MAK	DEU	700	200	2800	800			
VLA	ESP	700	200					
VLEP	FRA	700	200	1300	375		11	
TLV	GRC	700	200					
AK	HUN	700						
GVI/KGVI	HRV	700	200			SKIN		
VLEP	ITA	350	100					
TGG	NLD	700		1400				
VLE	PRT	700	200					
NDS/NDSCh	POL	300		1000		SKIN		
NPEL	SVK	700	200					
MV	SVN	700	200	2800	800			
WEL	GBR	350	100	1050	300			
OEL	EU	700	200					
TLV-ACGIH		344	100					
Predicted no-effect conce	entration - PNEC							
Normal value in fresh wa	ter			0,207	mg	ı/l		
Normal value in marine v	<i>r</i> ater			0,207	mg	ı/l		
Normal value for fresh wa	ater sediment			16,68	mg	/kg dw		
Normal value for marine	water sediment			16,68	mg	ı/kg dw		
Normal value for water, in				0,207	mg	ı/l		
Normal value of STP mid	roorganisms			3,24	mg	ı/l		
Normal value for the terre				3,38	mg	/kg dw		
Health - Derived no-effe	ect level - DNEL / D							
			consumers				on workers	
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				59,4 mg/kg bw/d				
Inhalation	412 mg/m3	412 mg/m3	206 mg/m3	206 mg/m3	1400 mg/m3	1400 mg/m3	700 mg/m3	700 mg/m
Skin				1186 mg/kg bw/d				2016 mg/kg bw

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 6/22

Replaced revision:11 (Dated: 15/03/2021)

Туре	Country	TWA/8h		STEL/15min		Remark	s / Observations	3
		mg/m3	ppm	mg/m3	ppm			
MAK	AUS	734	200	1468	400		Häufigk Schicht:	
VLEP	BEL	734	200	1468	400			
TLV	CZE	700	191,1	900	245,7			
AGW	DEU	730	200	1460	400			
MAK	DEU	750	200	1500	400			
VLA	ESP	734	200	1468	400			
VLEP	FRA	734	200	1468	400			
TLV	GRC	734	200	1468	400			
AK	HUN	734		1468				
GVI/KGVI	HRV	734	200	1468	400			
VLEP	ITA	734	200	1468	400			
TGG	NLD	734		1468				
VLE	PRT	734	200	1468	400			
NDS/NDSCh	POL	734		1468				
NPEL	SVK	734	200	1468	400			
MV	SVN	734	200	1468	400			
WEL	GBR	734	200	1468	400			
OEL	EU	734	200	1468	400			
TLV-ACGIH		1441	400					
Predicted no-effect co	ncentration - PNEC							
Normal value in fresh				0,24	mg	1/ I		
Normal value in marin	e water			0,024	mg	<u>1</u> /l		
Normal value for fresh	water sediment			1,15	mg	/kg dw		
Normal value for marir	ne water sediment			0,115		ı/kg dw		
Normal value for wate	r, intermittent release			1,65	mg	<u>J/I</u>		
Normal value of STP r	microorganisms			650	mg	<u>1</u> /l		
Normal value for the fo	ood chain (secondary p	oisoning)		0,2	g/k	g		
Normal value for the te	errestrial compartment			0,148	mg	ı/kg dw		
Health - Derived no-e	effect level - DNEL / D	MEL						
		Effects on	consumers			Effects	on workers	
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg bw/d				63 mg/kg bw/d

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 7/22

Replaced revision:11 (Dated: 15/03/2021)

Type	Country	TWA/8h		STEL/15min		Remarks	/ Observation	ns
	,	mg/m3	ppm	mg/m3	ppm			
MAK	AUS	1200	500	4800	2000		Häufig Schich	jkeit pro nt:4x
VLEP	BEL	594	246	1187	492			
TLV	CZE	800	331,2	1500	621			
AGW	DEU	1200	500	2400 (C)	1000 (C)			
MAK	DEU	1200	500	2400	1000			
VLEP	FRA	1210	500	2420	1000			
TLV	GRC	1780		3560				
AK	HUN	1210						
GVI/KGVI	HRV	1210	500					
VLEP	ITA	1210	500					
TGG	NLD	1210		2420				
VLE	PRT	1210	500					
NDS/NDSCh	POL	600		1800				
NPEL	SVK	1210	500					
MV	SVN	1210	500	2420	1000			
WEL	GBR	1210	500	3620	1500			
OEL	EU	1210	500					
TLV-ACGIH			250		500			
Predicted no-effect conce	entration - PNEC							
Normal value in fresh wat	ter			10,6	mg/	1		
Normal value in marine w	ater			1,06	mg/	/1		
Normal value for fresh wa	ater sediment			30,4	mg/	/kg dw		
Normal value for marine	water sediment			3,04	mg/	/kg dw		
Normal value for water, in				21	mg/	/1		
Normal value of STP mic	roorganisms			100	mg/	/1		
Normal value for the terre				29,5	mg/	kg dw		
Health - Derived no-effe	ct level - DNEL / D							
			n consumers				n workers	
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				62 mg/kg bw/d				
Inhalation				200 mg/m3	2420 mg/m3			1210 mg/m3
Skin				62 mg/kg bw/d	-			186 mg/kg bw/d

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE Health - Derived no-effect level - DNEL / DMEL									
		Effects or	n consumers			Effects	on workers		
Route of exposure	Acute local Acute Chronic local Systemic Chronic Systemic Acute local Systemic Syste						Chronic local	Chronic systemic	
Oral				1301 mg/kg bw/d					
Inhalation				1131 mg/m3				5306 mg/m3	
Skin				1377 mg/kg bw/d				13964 mg/kg bw/d	

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 8/22

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

ROSIN									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15min Remarks / Observation				S	
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	1				INHAL			
GVI/KGVI	HRV	0,05		0,15					
WEL	GBR	0,05		0,15					
Predicted no-effect concentr	ation - PNEC								
Normal value in fresh water				0,0016	mg	/I			
Normal value in marine water	er			0,00016	mg	/I			
Normal value for fresh water	r sediment			0,007 mg/kg dw					
Normal value for marine wat	er sediment			0,0007 mg/kg dw					
Normal value for water, inter				0,016 mg/l					
Normal value of STP microo	rganisms			1000 mg/l					
Normal value for the terrestr				0,00045 mg/kg dw					
Health - Derived no-effect	level - DNEL / D								
			consumers				on workers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral				1,065 mg/kg bw/d					
Inhalation	•				•	•	10 mg/m3	•	
Skin				1,065 mg/kg bw/d				2,131 mg/kg bw/d	

Leaend:

(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.

ACETONE

Biological Exposure Indices (IBE): Acetone in urine: 25 mg / L Time of collection: end of shift. (ACGIH 2021).

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Biological Exposure Indices (IBE): 2,5-Hexanedione in urine: 0,5 mg / L. Time of withdrawal: end of shift. (ACGIH 2021).

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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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.

Dated 25/02/2022

Printed on 25/02/2022

Page n. 9/22

Revision nr. 12

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

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 viscous liquid Colour straw yellow

Odour characteristic of solvent

Melting point / freezing point not available Initial boiling point > 55 °C Flammability not available Lower explosive limit not available Upper explosive limit not available < -1 °C Flash point not available Auto-ignition temperature Decomposition temperature not available Not applicable Kinematic viscosity >20,5 mm2/sec (40°C) Solubility immiscible with water

Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density not available Relative vapour density not available Particle characteristics not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 76,00 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ACETONE

Decomposes under the effect of heat.

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.

CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

ACETONE

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 10/22

Replaced revision:11 (Dated: 15/03/2021)

10.4. Conditions to avoid

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

CYCLOHEXANE

Avoid contact with: oxygen, strong oxidising agents. Avoid exposure to: heat, naked flames, ignition sources.

ETHYL ACETATE

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

ACETONE

Avoid exposure to: sources of heat, naked flames.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Avoid exposure to: naked flames, ignition sources.

10.5. Incompatible materials

CYCLOHEXANE

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

ACETONE

Incompatible with: acids, oxidising substances.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Incompatible with: strong oxidising agents.

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.

ACETONE

May develop: ketenes, irritant substances.

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

ETHYL ACETATE

Method: study report (1998) Reliability (Klimisch score): 1

Species: rat (Sprague-Dawley; Male / Female) Routes of exposure: intravenous and in vitro

Results: After intravenous injection, ethyl ethanol was rapidly hydrolyzed to ethanol. The half-life in the blood was calculated at 33-37 seconds.

ACETONE

Acetone is rapidly absorbed by inhalation, ingestion and through the skin and is rapidly distributed throughout the body, particularly in organs with a high water content. It is completely metabolized and the formation of metabolites is dose-related: at low doses there is the formation of methylglyoxal, at higher doses there is the formation of propanediol. The elimination of low concentrations occurs through the exhaled air, while if the concentration is equal to or greater than 15 ppm the elimination also takes place through the urine.

Information on likely routes of exposure

CYCLOHEXANE

WORKERS: inhalation; contact with the skin.

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

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

CYCLOHEXANE

It is irritating to the skin and mucous membranes, and can be absorbed by the skin; neurological action can occur at high doses and is largely due to its metabolite cyclohexanone.

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 11/22

Replaced revision:11 (Dated: 15/03/2021)

Interactive effects

CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

CYCLOHEXANE

Method: equivalent or similar to OECD 401

Reliability (Klimisch score): 2 Species: rat (Male / Female) Routes of exposure: oral Results: LD50 > 5000 mg/kg

Method: equivalent or similar to OECD 403

Reliability (Klimisch score): 2 Species: rat (Male / Female)

Routes of exposure: inhalation (vapors) Results: LC50 > 32,8 mg/l/4h Method: equivalent or similar to OECD 402

Reliability (Klimisch score): 2 Species: rabbit (Male / Female) Routes of exposure: cutaneous Results: LD50 > 2000 mg/kg.

ETHYL ACETATE

Method: equivalent or similar to OECD 401

Reliability (Klimisch score): 2 Species: rabbit (Male / Female) Routes of exposure: oral Results: LD50 = 4934 mg/kg

Bibliographic reference: "Range finding toxicity data: List VI" (Am Ind Hyg Ass J, 23, 95 (1962))

Reliability (Klimisch score): 2

Species: rabbit (New Zealand White; Male)

Routes of exposure: cutaneous Results: LD50 > 20000 mg/kg.

ACETONE

Reference: Freeman JJ et al., J Toxicol Environ Health (1985)

Method: no guidelines Reliability (Klimisch score): 2

Species: Rat (Sprague-Dawley; Female)

Routes of exposure: oral Results: LD50 = 5800 mg/kg bw

Reference: Bruckner JV et al., Toxicol Appl Pharmacol (1981)

Method: no guidelines Reliability (Klimisch score): 2 Species: Rat (Sprague-Dawley; Male) Routes of exposure: inhalation (vapors) Results: I C50 = 132 mg/l air/3h

Results: LC50 = 132 mg/l air/3h Reference: Roudabush RL et al., Toxicol Appl Pharmacol (1965)

Method: no guidelines Reliability (Klimisch score): 2

Species: Rabbit (White; Male / Female) Routes of exposure: cutaneous Results: LD50 = 7400 mg/kg bw

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 401

Reliability (Klimisch score): 2

Species: rat (Long-Evans; Male / Female)

Routes of exposure: oral Results: LD50 > 16750 mg/kg

Method: equivalent or similar to OECD 403

Reliability (Klimisch score): 2 Species: rat (Long-Evans; Male) Routes of exposure: inhalation (vapors)

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 12/22

Replaced revision:11 (Dated: 15/03/2021)

Results: LC50 = 259.354 ma/l 4h

Method: equivalent or similar to OECD 403

Reliability (Klimisch score): 2

Species: rabbit (New Zealand White: Male)

Routes of exposure: cutaneous Results: LD50 > 3350 mg/kg.

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on the strength of evidence of the available data as determined by expert judgment, the substance is not classified for the acute toxicity hazard class.

ROSIN

Method: OECD 423

Reliability (Klimisch score): 1

Species: rat (Sprague-Dawley; Female)

Routes of exposure: oral Results: LD50 > 2000 mg/kg Method: OECD 402 Reliability (Klimisch score): 1

Species: rat (Sprague-Dawley; Male / Female)

Routes of exposure: cutaneous Results: LD50 > 2000 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

CYCLOHEXANE

Based on the strength of evidence of the available data as determined by expert judgment, the substance is classified as a skin irritant.

ETHYL ACETATE

Method: "Classification of Corrosive Hazards", Federal Reg vol 37, 57 (1972)

Reliability (Klimisch score): 2 Species: rabbit (New Zealand White) Routes of exposure: cutaneous.

Results: not irritating

ACETONE

Reference: Anderson C. et al., Contact Dermatitis 15: 143-151 (1986)

Method: no guidelines Reliability (Klimisch score): 2 Species: Guinea pig (Dunkin-Hartley) Routes of exposure: cutaneous

Results: non-irritating

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Based on the evidence of available data, determined by the judgement of experts, the substance is classified as skin irritating

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on the strength of evidence of the available data determined by expert judgment, the substance is not classified for the skin corrosion / irritation hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

CYCLOHEXANE

Method: equivalent or similar to OECD 405

Reliability (Klimisch score): 2

Species: rabbit

Routes of exposure: ocular

Results: mild irritation.

Based on the strength of evidence of the available data as determined by expert judgment, the substance is not classified for the hazard class of serious eye damage / eye irritation.

ETHYL ACETATE

Method: equivalent or similar to OECD 405

Reliability (Klimisch score): 2 Species: rabbit (New Zealand White) Routes of exposure: ocular

Results: irritating. (Harmonized classification, Annex VI, Regulation 1272/2008)

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 13/22

Replaced revision:11 (Dated: 15/03/2021)

ACFTONE

Method: equivalent or similar to OECD 405 Reliability (Klimisch score): 1 Species: rabbit (New Zealand White)

Routes of exposure: ocular

Result: irritating (Harmonized classification, Annex VI, Regulation 1272/2008)

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 405

Reliability (Klimisch score): 2 Species: rabbit (New Zealand White)

Exposure: eye
Results: not irritating

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on the strength of evidence of the available data as determined by expert judgment, the substance is not classified for the hazard class of serious eye damage / eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

CYCLOHEXANE

Method: equivalent or similar to EU B.6

Reliability (Klimisch score): 1

Species: guinea pig (Hartely; Male / Female)

Routes of exposure: cutaneous Results: not sensitizing.

ETHYL ACETATE

Method: OECD 406

Reliability (Klimisch score): 1

Species: guinea pig (Dunkin-Hartley; Female)

Routes of exposure: cutaneous. Results: non-sensitizing.

ACETONE

Reference: Nakamura A. et al., Contact Dermatitis 31: 72-85 (1994)

Method: no guidelines Reliability (Klimisch score): 2 Species: guinea pig (Hartley; Female) Routes of exposure: cutaneous

Result: not sensitizing

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 429

Reliability (Klimisch score): 2

Species: mouse

Routes of exposure: cutaneous. Results: non-sensitizing.

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on the strength of evidence of the available data as determined by expert judgment, the substance is classified as a skin sensitizer.

ROSIN

Method: OECD 429

Reliability (Klimisch score): 1 Species: mouse (CBA; Female) Routes of exposure: cutaneous

Results: sensitizer (Harmonized classification, Annex VI, Regulation 1272/2008)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CYCLOHEXANE

Method: Clive and Spector (1975) -In vitro test

Reliability (Klimisch score): 1 Species: Mouse (lymphoma cells)

Results: negative with and without metabolic activation Method: equivalent or similar to OECD 475 - In vivo test

Reliability (Klimisch score): 1

Species: rat (CRL: COBS CD (SD) BR; Male / Female)

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 14/22

Replaced revision:11 (Dated: 15/03/2021)

Routes of exposure: inhalation (vapors)

Results: negative.

ETHYL ACETATE

Method: equivalent or similar to OECD 473 - In vitro test

Reliability (Klimisch score): 2 Species: Chinese hamster (ovary)

Results: negative

Method: equivalent or similar to OECD 474 - In vivo test

Reliability (Klimisch score): 2

Species: Chinese hamster (Male / Female)

Routes of exposure: oral Results: negative.

ACETONE

Method: equivalent or similar to OECD 471 - in vitro test

Reliability (Klimisch score): 1 Species: S. typhimurium Result: negative

Reference: National Toxicology Program (NTP) (1991) - In vivo testing

Method: no guidelines Reliability (Klimisch score): 2

Species: Mouse (B6C3F1; Male / Female)

Routes of exposure: oral Results: negative

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE Method: equivalent or similar to OECD 471 - In vitro test

Reliability (Klimisch score): 1 Species: S. typhimurium

Results: negative with and without metabolic activation Method: equivalent or similar to OECD 475 - In vivo test

Reliability (Klimisch score): 1

Species: Rat (Sprague-Dawley; Male / Female)

Routes of exposure: inhalation (vapor)

Results: negative.

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on available data, the substance has no mutagenic effects and is not classified under the CLP hazard class of germ cell mutagenicity

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

CYCLOHEXANE

Not available data.

ETHYL ACETATE

Reference: Cancer Res. 33: 3069 - 3085. (1973)

Reliability (Klimisch score): 2

Species: mouse (A / He; Male / Female) Exposure routes: intraperitoneal

Results: negative

ACETONE

Reference: Van Duuren BL et al., Cancer Res 38: 3236-3240 (1978)

Method: no guidelines Reliability (Klimisch score): 2 Species: Mouse (ICR; Female) Routes of exposure: cutaneous

Results: negative

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 451

Reliability (Klimisch score): 1

Species: mouse (B6C3F1; Male / Female) Routes of exposure: inhalation (vapors)

Results: Negative. NOAEC (carcinogenicity) = 3000 ppm;

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on available data, the substance has no carcinogenic effects and is not classified under the CLP hazard class of carcinogenicity

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 15/22

Replaced revision:11 (Dated: 15/03/2021)

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Based on available data, the substance has no reproductive toxicity effects and is not classified under the relevant hazard class CLP.

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on available data, the substance has no reproductive toxicity effects and is not classified under the relevant hazard class CLP.

Adverse effects on sexual function and fertility

CYCLOHEXANE

Method: equivalent or similar to OECD 416

Reliability (Klimisch score): 1

Species: rat (Crl: CD BR; Male / Female) Routes of exposure: inhalation (vapors)

Results: negative.

ETHYL ACETATE

Method: US EPA "Health Effects Testing Guidelines 40 CFR Part 798.2450"

Reliability (Klimisch score): 1

Species: rat (Sprague-Dawley; Male) Routes of exposure: inhalation (vapors)

Results: negative

NOAEL results: 1500 ppm.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 416

Reliability (Klimisch score): 1

Species: Rat (Sprague-Dawley; Male / Female)

Routes of exposure: inhalation (vapors)

Results: negative. NOAEC (Male / Female) = 3000 ppm.

Adverse effects on development of the offspring

CYCLOHEXANE

Method: equivalent or similar to OECD 414

Reliability (Klimisch score): 1 Species: rat (Crl: CD BR)

Routes of exposure: inhalation (vapors)

Results: negative. NOAEC results (maternal): 500 - 2000 ppm. NOAEC results (development): 7000 ppm

ETHYL ACETATE

Method: equivalent or similar to OECD 414

Reliability (Klimisch score): 2 Species: mouse (CD-1) Routes of exposure: oral

Results: negative. NOAEL (maternal): 2200 mg/kg body weight/day. NOAEL (development) > 3600 mg/kg body weight/day.

ACETONE

Method: equivalent or similar to OECD 414

Reliability (Klimisch score): 1 Species: rat (Sprague-Dawley)

Routes of exposure: inhalation (aerosol)

Result: no teratogenic effect.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 414

Reliability (Klimisch score): 1 Species: mouse (CD-1)

Routes of exposure: inhalation (vapors)

Results: negative. NOAEC (development) = 3000 ppm.

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

CYCLOHEXANE

Based on available data, the substance exhibits specific target organ toxicity effects from single exposure and is classified under the relevant CLP hazard class.

Target organ: Central nervous system.

Route of exposure: Inhalation.

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 16/22

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

ETHYL ACETATE

The substance may cause drowsiness or dizziness (Harmonized classification, Annex VI, Regulation 1272/2008)

Target organ: Central nervous system.

Route of exposure: Inhalation.

ACETONE

May cause drowsiness or dizziness (Harmonized classification, Annex VI, CLP Reg.)

Target organ: Central nervous system.

Route of exposure: Inhalation.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Based on the available data, the substance may cause drowsiness or dizziness on single exposure and is classified under the relevant CLP hazard

Target organ: Central nervous system.

Route of exposure: Inhalation.

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on available data, the substance has no specific target organ toxicity effects for single exposure and is not classified under the relevant CLP hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

CYCLOHEXANE

Method: EPA OPPTS 870.3465 Reliability (Klimisch score): 1 Species: rat (Crl: CD BR)

Routes of exposure: inhalation (vapors)

Results: negative. NOAEC (Acute Transient Damage / Hearing Damage): 500 ppm. NOAEC (subchronic damage / histopathological results): 7000

ppm

ETHYL ACETATE

Based on the available data, the substance has no specific target organ toxicity effects due to repeated exposure and is not classified under the

relevant CLP hazard class

Method: equivalent or similar to EPA OTS 795.2600

Reliability (Klimisch score): 2

Species: rat (Sprague-Dawley; Male / Female)

Routes of exposure: oral

Results: negative. NOAEL: 900 mg/kg body weight/day

Method: EPA OTS 798.2450 Reliability (Klimisch score): 1

Species: rat (Crl: CD BR; Male / Female)

Routes of exposure: inhalation

Results: negative.

ACETONE

Method: equivalent or similar to OECD 408

Reliability (Klimisch score): 1

Species: rat (Fischer 344; Male / Female)

Routes of exposure: oral

Result: negative

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Method: equivalent or similar to OECD 413

Reliability (Klimisch score): 1 Species: Rat (Fischer 344)

Routes of exposure: inhalation (vapor) Results: negative. NOAEL = 2984 ppm.

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL Based on available data, the substance has no specific target organ toxicity effects on repeated exposure and is not classified under the relevant CLP hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class. Viscosity: >20,5 mm2/sec (40°C)

CYCLOHEXANE

Based on the available data, the substance is aspirated hazardous and is classified under the relevant hazard class CLP.

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022 Page n. 17/22

Replaced revision:11 (Dated: 15/03/2021)

ETHYL ACETATE

No available data for the hazard class CLP of aspiration hazard.

ACETONE

No data are available on aspiration hazard.

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

For petroleum products with viscosity lower than 20.5mm2 / s at 40 °C, a specific risk is linked to the aspiration of the liquid into the lungs which can occur directly following ingestion, or subsequently in case of spontaneous or provoked vomiting. Based on the available data, the substance is aspirated hazardous and is classified under the relevant hazard class CLP

FORMALDEHYDE, POLYMER WITH 4-(1,1-DIMETHYLETHYL)PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] AND 4-METHYLPHENOL No data are available on the hazard in case of 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

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

12.1. Toxicity

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

CYCLOHEXANE

LC50 - for Fish

4,53 mg/l/96h Pimephales promelas (equivalent or similar to OECD 203)
EC50 - for Crustacea

3,89 mg/l/48h Daphnia magna (equivalent or similar to OECD 202)
EC50 - for Algae / Aquatic Plants

32,7 mg/l/72h Chlorella vulgaris (equivalent or similar to OECD 201)

ETHYL ACETATE

LC50 - for Fish

230 mg/l/96h (Pimephales promelas; US EPA E03-05)
EC50 - for Crustacea

1350 mg/l/48h (Hydra Oligactis;Aquat. Toxicol. 4, 73 - 82 (1983))
Chronic NOEC for Fish

> 75,6 mg/l 32d (Pimephales promelas; equivalent or similar to OECD 210)

2,4 mg/l 21d (Daphnia magna; OECD 211)

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants > 100 mg/l 72h (Desmodesmus subspicatus; OECD 201)

HYDROCARBONS, C6, ISOALKANES,

<5% N-HEXANE
LC50 - for Fish
18,27 mg/l/96h (Oncorhynchus mykiss; Q-SAR)
EC50 - for Crustacea
31,9 mg/l/48h (Daphnia magna; Q-SAR)

Chronic NOEC for Algae / Aquatic Plants 3,034 mg/l/48h (Pseudokirchneriella subcapitata; Q-SAR)

ACETONE

LC50 - for Fish

7163 mg/l/96h Pimephales promelas (equivalent or similar to OECD 203)

EC50 - for Crustacea

8800 mg/l/48h Daphnia pulex (Adema, D.M.M. (1978) Hydrobiologia)

Chronic NOEC for Algae / Aquatic Plants 530 mg/l/192h Microcystis aeruginosa (DIN 38412)

ROSIN

LC50 - for Fish

5,4 mg/l/96h Danio rerio (OECD 203)

EC50 - for Crustacea

1,6 mg/l/48h Daphnia magna (OECD 202)

EC50 - for Algae / Aquatic Plants 16,6 mg/l/72h Psudokirchneriella subcapitata (OECD 201)

12.2. Persistence and degradability

CYCLOHEXANE

Solubility in water 52 mg/l 23,5 °C (The Merck Index; O'Neil MJ (Ed.); Merk & Co. Inc.,

Whitehouse Station, NJ, USA; 2006)
Rapidly degradable 77 % in 28 days (OECD 301 F)

ETHYL ACETATE Solubility in water

Solubility in water 80000 mg/l 25°C (OECD 105)

Rapidly degradable 69% in 20 days (BOD -"Standard methods for the examination of water and

waste water 1971")

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Rapidly degradable 98% in 28 days (Read-across from benzoic acid, sodium salt; OECD 301 F)

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 18/22

Replaced revision:11 (Dated: 15/03/2021)

ADHESIVE FOR SPARE PARTS

ACETONE

Rapidly degradable 90,2% in 28 days (equivalent or similar to OECD 301 B)

ROSIN

Solubility in water 0,9 mg/l 20°C (OECD 105)
Rapidly degradable 80% in 28 days (OECD 301 B)

12.3. Bioaccumulative potential

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44 Log Kow (Hansch C. et al, ACS Professional Reference Book, American

Chemical Society, 1995)

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 Log Kow (EPA OPPTS 830.7560)

BCF 30 - (Environmental hazard profile of organic chemicals; Chemosphere 14,

1589 – 1616; 1985)

HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE

Partition coefficient: n-octanol/water 3,6 Log Pow 20°C (Read-across from Iso-Hexane; CRC Press, Boca Raton)

ACETONE

Partition coefficient: n-octanol/water -0,23 Log Kow (Lin S.-T et al, nd. Eng. Chem. Res., 1999)

3 - (value esteemed with EPIWIN v3.20)

ROSIN

Partition coefficient: n-octanol/water > 1,9 Log Pow pH = 2 (OECD 117) BCF 44,98 L/kgwwt (EPISUITE 4.0)

12.4. Mobility in soil

CYCLOHEXANE

Partition coefficient: soil/water 2,89 Log Koc (QSARs for soil sorption. Overview of Structure-Activity Relat.

for Env. Endpoints (RTD Programme)

ROSIN

Partition coefficient: soil/water 3,7289 Log Koc ((Q)SAR: KOCWIN v2.00 QSAR model available from the

ÚS EPA)

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. (Directive 2008/98/EC and subsequent amendments and adjustments and related national transpositions).

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The legal responsibility for disposal is the producer / holder of the waste.

To this mixture different EWC codes could be applied (European Waste Code) based on the specific circumstances that generated the waste, possible alterations and / or possible contamination.

The product as such, contained in the original packaging, or decanted in an appropriate container for the purpose of disposal, or no longer usable (for example following an accidental spill), must be classified with a EWC code that is compatible with the description of the use indicated in section 1.2.

The suitable final destination of the waste must be evaluated by the manufacturer on the basis of the chemical-physical characteristics of the waste, the compatibility with the authorized facility to which it will be given for recovery, and the definitive treatment or disposal according to the procedures established by current regulations.

Disposal through wastewater discharge is not permitted.

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022 Printed on 25/02/2022

Page n. 19/22

Replaced revision:11 (Dated: 15/03/2021)

CONTAMINATED PACKAGING

Contaminated packaging must be sent, properly labeled, to recovery or disposal in compliance with national waste management regulations and must be classified with the following EWC code:

15 01 10*: packaging containing residues of or contaminated by dangerous substances

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1133

14.2. UN proper shipping name

ADR / RID: **ADHESIVES**

ADHESIVES (CYCLOHEXANE) IMDG:

IATA: **ADHESIVES**

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: Ш

14.5. Environmental hazards

ADR / RID: Environmentally

Hazardous

IMDG: Marine Pollutant



NO IATA:

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: Tunnel 5 L restriction

code: (D/E) Special provision: 640C

IMDG: EMS: F-E, S-D Limited Quantities:

5 L

Packaging Cargo: Maximum quantity: 60 L instructions:

364 Packaging Pass.: Maximum quantity:

5 L instructions: 353

Special provision: А3

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

IATA:

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 20/22

Replaced revision:11 (Dated: 15/03/2021)

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-E1

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

Product

Point 3 - 40

Contained substance

Point 75

Point 57 CYCLOHEXANE

REACH Reg.: 01-2119463273-41-xxxx

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

ACETONE (CAS 67-64-1): ANNEX II - Precursors of regulated explosives.

This product is governed by regulation (EU) 2019/1148: all suspicious transactions and significant disappearances and thefts must be reported to the competent national contact point:

IRFI AND

An Garda Síochána (National Police Service) E-mail: Liaisonandprotection_DV@garda.ie

Tel.: +353 1 6661782 (office hours); or Garda 24hr Confidential Line: 1800 666 111; or 999 or 112 (in the event of a serious or imminent threat)

MALTA

The Malta Police Force E-mail: <u>pulizija@gov.mt</u> Tel.: (+356) 2122 4001-9

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

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

SECTION 16. Other information

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.

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022 Page n. 21/22

Replaced revision:11 (Dated: 15/03/2021)

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

Flam. Liq. 2 Asp. Tox. 1 Flammable liquid, category 2 Aspiration hazard, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 Skin sensitization, category 1 Skin Sens. 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3 **Aquatic Acute 1** Hazardous to the aquatic environment, acute toxicity, category 1 Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation. May cause an allergic skin reaction. H317

H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and 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

ADHESIVE FOR SPARE PARTS

Revision nr. 12

Dated 25/02/2022

Printed on 25/02/2022

Page n. 22/22

Replaced revision:11 (Dated: 15/03/2021)

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 THE RECIPIENT OF THE SAFETY DATA SHEET (SDS):

The recipient of this SDS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance or mixture to which this SDS is referred to. In particular, the recipient shall provide adequate training to the personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance or mixture.

However, the substance or mixture referred to by this SDS shall not be used for uses other than those specified in Section 1. The Supplier don't assume responsibility for improper uses. Since the use of the product does not fall under the direct control of the Supplier, the user shall, under his own responsibility, fulfill national and EU regulations concerning health and safety.

The information included in this SDS are provided in good faith and are based on the current state of scientific and technical knowledge, at the revision date indicated, available to the Supplier indicated in Section 1 of this SDS. It shall not be meant that the SDS is a guarantee of any specific property of the substance or mixture. The information concern only to the substance or mixture specifically designated in Section 1 and it could not be valid for the substance or mixture used in combination with other materials or in any process not specified in the text.

This version of the SDS substitutes all the previous versions.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 14 / 15 / 16.