FEYCOPUR Härter 652 114-652-2 Article No.: 999998 EN Print date: 21.11.2018 Revision date: 24.10.2018 Version: Issue date: 11.10.2018 Page 1/8 SECTION 1: Identification of the substance/mixture and of the company/undertaking product identifiers 1.1. Article No. (manufacturer/supplier) 114-652-2 Identification of the substance or mixture **FEYCOPUR Härter 652** 1.2. Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses:** Hardener for 2 component polyurethane resins or coatings 1.3. Details of the supplier of the safety data sheet manufacturer **FEYCOLOR GmbH** Maxhuettenstraße 6 Telephone: 0049 (0)941/60 49 7-0 93055 Regensburg Telefax: 0049 (0)941/60 49 7-30 E-mail info@feycolor.com Website: www.feycolor.com Dept. responsible for information: Department for dangerous goods 0049 (0)941/60 49 7-0 E-mail (competent person) sd@feycolor.com 1.4. Emergency telephone number Emergency telephone number +49 (0) 700 24 11 21 12 (FCM) Österreichische Vergiftungsinformationszentrale +43 (0) 1406 43 43

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Fla
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Ha
Skin Sens. 1 / H317	Respiratory or skin sensitisation	M
STOT SE 3 / H335	Specific target organ toxicity (single	M
	exposure)	

Flammable liquid and vapour. Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms

Warning

Hazard statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

Precautionary statements

i iccuationary states	nents
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical equipment.
P280	Wear protective gloves and eye/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Keep locked up.
P501	Dispose of contents/container to industrial incineration plant.
Hazard components	for labelling
	1,6-Hexamethylene diisocyanate homopolymer
	hexamethylene-di-isocyanate

Supplemental Hazard information (EU)

EUH204 Contains isocyanates. May produce an allergic reaction.



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2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description

Hazardous ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification // Remark	Wt %
500-060-2 28182-81-2	01-2119485796-17 1,6-Hexamethylene diisocyanate homopolymer Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335	50 < 100
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	12,5 < 20
212-485-8 822-06-0 615-011-00-1	01-2119457571-37 hexamethylene-di-isocyanate Acute Tox. 4 H302 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 / STOT SE 3 H335	0,1 < 0,3

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

No special measures are necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons: strong water jet

5.2. Special hazards arising from the substance or mixture



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Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

n-butyl acetate INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 MEL/OES, TWA: 724 mg/m3; 150 ppm MEL/OES, STEL: 966 mg/m3; 200 ppm

Additional information



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TWA : long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,7 mm; Breakthrough time (maximum wearing time) 60 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	
Physical state:	Liquid
Colour:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
pH at20 °C:	n.a.
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	124 °C
	Source: n-butyl acetate
Flash point:	27 °C
Evaporation rate:	not applicable
Flammability (solid, gas):	
Burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	3 Vol-%
Upper explosion limit:	10,4 Vol-%
	Source: n-butyl acetate
Vapour pressure at20 °C:	2,204 mbar
Vapour density:	not applicable
Relative density:	
Density at20 °C:	1,10 g/cm³
Solubility(ies):	
Water solubility (g/L) at20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12



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	Auto-ignit	ion temperature:	390 °C Source: n-but	yl acetate
	Decompos	sition temperature:	not applicable	9
	Viscosity	at20 °C:	60 s 4 mm Method: DIN 5	53211
	Explosive	properties:	not applicable	9
	Oxidising	properties:	not applicable	9
9.2.	Other info	rmation		
	Solid cont	ent (%):	81 Wt %	
	solvent co Organic Water:	ontent: solvents:	19,00 Wt % 0,00 Wt %	
		eparation test (%):	< 3 Wt % (ADF	R/RID)
				,
SECI	10N 10: 8	Stability and react	ivity	
	Reactivity No informa	ation available.		
	Chemical Stable whe section 7.	-	nmended regulations for storage	and handling. Further information on correct storage: refer to
		/ of hazardous reac / from strong acids, s		agents to avoid exothermic reactions.
	Conditions to avoid Hazardous decomposition byproducts may form with exposure to high temperatures.			
	-	ble materials ation available.		
	Hazardous	s decomposition pr decomposition byp rogen oxides.		to high temperatures, e.g.: carbon dioxide, carbon monoxide,
SECT	FION 11: 1	Coxicological info	rmation	
		ion according to Reg	ulation (EC) No 1272/2008 [CLP] /ailable.	l
11.1.	Informatio	on on toxicological	effects	
	Acute toxi	icity, calculated:		
	ATEmix ca	lculated, inhalative (vapours): 14 mg/l	
	Acute toxi	icity		
		etate 0, Rat: 14000 mg/kg e (vapours), LC50, Ra	at: > 21 mg/l (4 h)	
	1,6-Hexam	ethylene diisocyana (vapours), LC50, R	te homopolymer	
	skin corro	sion/irritation; Seri	ous eye damage/eye irritation	
	Based on a	available data, the cl	assification criteria are not met.	
	Respirato	ry or skin sensitisa	ion	
	Skin:	ethylene diisocyana se an allergic skin rea		
			, mutagenicity and toxicity for r	reproduction)
		available data, the cl	assification criteria are not met.	
		arget organ toxicity		

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n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness: May cause drowsiness or dizziness.

1,6-Hexamethylene diisocyanate homopolymer Specific target organ toxicity (single exposure), Irritation: May cause respiratory irritation.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP] There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

12.1. Toxicity

Toxicological data are not available.

Long-term Ecotoxicity

Toxicological data are not available.

- 12.2. **Persistence and degradability** No information available.
- 12.3. Bioaccumulative potential

No information available.

Bioconcentration factor (BCF)

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111 Waste paint and varnish containing organic solvents or other dangerous substances

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.



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14.1.	UN numb	ber				
				UN 1263		
	Land tran Sea trans	er shipping name sport (ADR/RID): port (IMDG): port (ICAO-TI / IATA-	DGR):	Paint related r PAINT RELAT Paint related r	ED MATERIAL	
14.3.		r t hazard class(es) sport (ADR/RID):		"No good acco containers > 4	ording class 3" 50 I = class 3	
	for packa	port (IMDG) ges < 30 litres: ort (ICAO-TI / IATA-	DGR)	3 Transport in a 3	ccordance with 2.3.2.5 of the IMDG Code	
14.4.	Packing	group				
				III		
4.5.		nental hazards				
		sport (ADR/RID)		not applicable		
14.0	Marine po		_	not applicable		
 14.6. Special precautions for user Transport always in closed, upright and safe containers. Make sure that persons transporting the product case of an accident or leakage. Advices on safe handling: see parts 6 - 8 				ure that persons transporting the product know what to do in		
	Further information					
	Land trar	nsport (ADR/RID)				
		striction code		D/E		
	Sea trans	sport (IMDG)				
	EmS-No.			F-E, S-E		
	Air trans	port (ICAO-TI / IATA	-DGR)			
		rt in bulk according		rnol and the IF	SC Code	
17.7.	not applic	•				
SECI	TION 15 :	Regulatory inform	nation			
5.1.	Safety, h	ealth and environm	ental regulations/	legislation sp	ecific for the substance or mixture	
	EU legisl	ation				
		2010/75/EU on ind ie (in g/L): 209	ustrial emissions			
	National	regulations				
	Observe o Observe i	restrictions to employ	yment for juvenils a	according to the	Directive (92/85/EEC) for expectant or nursing mothers. 'juvenile work protection guideline' (94/33/EC).	
45.0	-	gulations, restrictio	•	n regulations		
15.2.	Chemical Safety Assessment For the following substances of this preparation a chemical safety assessment has been carried out:					
	EC No.	Chemi	cal name		REACH No.	
	CAS No. 500-060-2	2 1,6-He	xamethylene diisoc	yanate homopo	olymer 01-2119485796-17	
-	28182-81 204-658- 123-86-4	1 n-butyl	acetate		01-2119485493-29	
	212-485-8 822-06-0	8 hexam	ethylene-di-isocyar	nate	01-2119457571-37	

SECTION 16: Other information

FEYCOLOR[®] **FEYCOPUR Härter 652** Article No .: 114-652-2 Print date: 21.11.2018 Revision date: 24.10.2018 999998 EN Issue date: 11.10.2018 Version: Page 8 / 8 Full text of classification in section 3: Acute toxicity (inhalative) Acute Tox. 4 / H332 Harmful if inhaled. Respiratory or skin sensitisation May cause an allergic skin reaction. Skin Sens. 1 / H317 STOT SE 3 / H335 Specific target organ toxicity (single May cause respiratory irritation. exposure) Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour. STOT SE 3 / H336 Specific target organ toxicity (single May cause drowsiness or dizziness. exposure) Acute Tox. 4 / H302 Acute toxicity (oral) Harmful if swallowed. Acute toxicity (inhalative) Acute Tox. 2 / H330 Fatal if inhaled. Skin Irrit. 2 / H315 skin corrosion/irritation Causes skin irritation. Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation. Respiratory or skin sensitisation May cause allergy or asthma symptoms or Resp. Sens. 1 / H334

breathing difficulties if inhaled.

Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European
	Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW (WEL)	Occupational Exposure Limit Value
CAS	Chemicals Abstract Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DNEL	Derived No-Effect Level
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous
	Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises Dangereuses
	(Regulations concerning the International Carriage of Dangerous Goods by Rail)
UN	United Nations
LC	Lethal Concentration
LD	Lethal Dose
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.