according to 1907/2006/EC, Article 31 Version number 4 (replaces version 3)

Printing date 22.01.2024

Revision: 22.01.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier

• Trade name: <u>Q</u> 70-205HF-1 HS Hardener fast

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

No further relevant information available.

· Application of the substance / the mixture Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Q-Company Int. GmbH Lentföhrdener Strasse 12 – 14 D-24576 Weddelbrook, Germany msds@qrefinish.com Tel +49 (0)4192 891420 www.qrefinish.com

· 1.4 Emergency telephone number: +49 (0)551-19240 (Giftinformationszentrum-Nord)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008

flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2H319Causes serious eye irritation.Skin Sens. 1H317May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

• Hazard pictograms



· Signal word Danger

Hazard-determining components of labelling: Hexamethylene diisocyanate, oligomers n-Butyl acetate
Ethyl acetate
4-isocyanatosulphonyltoluene
Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.





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| · Precautionary | statements |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No |
| | smoking. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P303+P361+P | 2353 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. |
| P305+P351+P | 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| · Additional info | prmation: |
| EUH066 Repea | ited exposure may cause skin dryness or cracking. |
| 1 | ins isocyanates. May produce an allergic reaction. |
| | ofessional users. |
| \cdot 2.3 Other haza | |
| | and white assassment |

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| · Dangerous components: | | |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29 | n-Butyl acetate 🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336, EUH066 | 50-100% |
| CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17 | Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 | 25-50% |
| CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46 | Ethyl acetate Flam. Liq. 2, H225; () Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | 10-25% |
| CAS: 4083-64-1 EINECS: 223-810-8 Reg.nr.: 01-2119980050-47 | 4-isocyanatosulphonyltoluene | ≥0.1-<1% |

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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· After skin contact: Immediately rinse with water.

· After eye contact:

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Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen cyanide (HCN)

• 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.

Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container.

Decontaminate immediately with suitable mixture (flammable):

- as such usable (inflammatory!):

| water | 45 Vol.% |
|-------------------------------------|----------|
| ethanol or isopropanol | 50 Vol.% |
| ammonia solution (Density= 0.88) | 5 Vol.% |
| - alternatively (non-flammable): | |
| sodium carbonate | 5 Vol.% |
| water | 95 Vol.% |
| 1.1 1 | 1 1 11 |

Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

· 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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| Keeg away, from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only : employed in processes in which this product is used under appropriate medical supervision. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol au water. Storage class: 3 7.3 Specific end use(s) No further relevant information available. SECTION 8: Exposure controls/personal protection 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 123-86-4 n-Butyl acetate WEL Short-term value: 724 mg/m ¹ , 150 ppm 24182-81-2 Hexamethylene diisocyanate, oligomers EBW Short-term value: 724 mg/m ¹ , 150 ppm 24183-81-3 Hexamethylene diisocyanate, oligomers EBW Short-term value: 74 mg/m ¹ , 200 ppm Long-term value: 74 mg/m ¹ , 200 ppm Long-term value: 74 mg/m ¹ , 200 ppm Long-term value: 74 mg/m ¹ , 200 ppm Most-41-1-74-6 Ethyl acetate WEL Short-term value: 74 mg/m ¹ , 200 ppm Long-term value: | 7.1 Prec | utions for safe handling |
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| Prevent formation of aerosols. Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only i employed in processes in which this product is used under appropriate medical supervision. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Do not store together with reducing agents, henry-metal compounds, acids and alkalis. Store away from foodstuffs. Further information about storage conditions: Keep container tightly sealed. Store areay from foodstuffs. Store areay from foodstuffs. Store areay from foodstuffs. Store areay from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol arwater. Store genarately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol arwater. Store areay from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol arwater. Store genarately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol arwater. Store areay for moxidising agents, information available. SECTION &: Exposure controls/personal protection 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 123-86-4 n-Butyl acetate EBW Short-term value: 266 mg/m², 200 ppm Long-term value: 266 mg/m², 100 ppm Long-term value: 124 mg/m², 150 ppm 28182-81-2 Hexamethylene diisocyanate, oligomers EBW Short-term value: 168 mg/m², 400 ppm Long-term value: 174 mg/m², 100 ppm Long-term value: 174 mg/m², 100 ppm Long-term value: 174 mg/m², 200 ppm 4083-64-1 4-isocyanatosulphonyltoluene WEL Short-term value: 174 mg/m², 200 ppm Long-term value: 0.0 mg/m³ | Keep aw | ay from heat and direct sunlight. |
| Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only a employed in processes in which this product is used under appropriate medical supervision. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs. Further information about storage conditions: Keep container tightly sealed. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol ar water. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol ar water. Store a class: 3 7.3 Specific end use(s) No further relevant information available. SECTION 8: Exposure controls/personal protection 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 123-86-4 n-Butyl acetate WEL Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 966 mg/m ³ , 200 ppm 2012-81-21 Hexamethylene diiscoyanate, oligomers EBW Short-term value: 0.5 mg/m ⁴ exposition evaluation valu TRCS 430 (EBW) 141-78-6 Ethyl acetate WEL Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 7.4 mg/m ³ , 200 ppm 2013-64-1 4-isocyanatosulphonyltoluene WEL Short-term value: 0.07 mg/m ³ Long-term value: 0.07 mg/m ³ Long-term value: 0.01 mg/m ³ Sev: as -NCO Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | | |
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| Information about storage in one common storage facility: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away (from foodstuffs. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol at water. Storage class: 3 7.3 Specific end use(s) No further relevant information available. Storage class: 1 7.3 Specific end use(s) No further relevant information available. Storage class: 3 7.3 Specific end use(s) No further relevant information available. Storage class: 4 Storage class: 5 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 123-86-4 n-Butyl acetate WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 0.5 mg/m³ Stop pm Long-term value: 0.5 mg/m³ Stop pm Long-term value: 0.5 mg/m³, 200 ppm Long-term value: 0.5 mg/m³ VEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 1734 mg/m³, 200 ppm Long-term value: 734 mg/m³, 200 ppm | | nents to be met by storerooms and recentacles. Store in a cool location |
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| SECTION 8: Exposure controls/personal protection 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 123-86-4 n-Butyl acetate WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm 28182-81-2 Hexamethylene diisocyanate, oligomers EBW Short-term value: 0.5 mg/m³ exposition evaluation valu TRGS 430 (EBW) 141-78-6 Ethyl acetate WEL Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm 4083-64-1 4-isocyanatosulphonyltoluene WEL Short-term value: 0.07 mg/m³ Long-term value: 0.00 mg/m³ Sen; as -NCO Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 0 | |
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| 4083-64-1 4-isocyanatosulphonyltoluene WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh Lc 28182-8 EBW Sh exy 141-78-6 | rol parameters nts with limit values that require monitoring at the workplace: n-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate |
| WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh 28182-8 EBW Sh ex 141-78-0 WEL Sh | rol parameters nts with limit values that require monitoring at the workplace: n-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm |
| Long-term value: 0.02 mg/m ³ Sen; as -NCO Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh La 28182-8 EBW Sh ext 141-78-6 WEL Sh La | rol parameters nts with limit values that require monitoring at the workplace: in-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm -2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm |
| Sen; as -NCO Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Com Ingredie 123-86-4 WEL Sh La 28182-8 EBW Sh ex 141-78-6 WEL Sh La 4083-64 | rol parameters nts with limit values that require monitoring at the workplace: n-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm -2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm 1 4-isocyanatosulphonyltoluene |
| Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh LC 28182-8 EBW Sh exy 141-78-0 WEL Sh LC 4083-64 WEL Sh | rol parameters nts with limit values that require monitoring at the workplace: n-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm I 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ |
| 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh LC 28182-8 EBW Sh exy 141-78-0 WEL Sh LC 4083-64 WEL Sh LC | rol parameters nts with limit values that require monitoring at the workplace: n-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm 1-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm 1 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ ng-term value: 0.02 mg/m ³ |
| Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh 28182-8 EBW Sh ex 141-78-6 WEL Sh Lo 4083-64 WEL Sh Lo Se | rol parameters nts with limit values that require monitoring at the workplace: n-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm I 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ ng-term value: 0.02 mg/m ³ n; as -NCO |
| Individual protection measures, such as personal protective equipment | 8.1 Cont Ingredie 123-86-4 WEL Sh 28182-8 EBW Sh ex, 141-78-0 WEL Sh LC 4083-64 WEL Sh LC Se Addition | rol parameters ints with limit values that require monitoring at the workplace: in-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ing-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ing-term value: 734 mg/m ³ , 200 ppm I 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ ing-term value: 0.02 mg/m ³ ing-term value: 0.02 mg/m ³ ing-term value: 0.02 mg/m ³ ing-term value: The lists valid during the making were used as basis. |
| | 8.1 Cont Ingredie 123-86-4 WEL Sh 28182-8 EBW Sh ex, 141-78-0 WEL Sh LC 4083-64 WEL Sh LC Se Addition 8.2 Expo | rol parameters ints with limit values that require monitoring at the workplace: in-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm -2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm I 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ ng-term value: 0.02 mg/m ³ n; as -NCO al information: The lists valid during the making were used as basis. sure controls |
| All personal projective equipment, including respiratory protective equipment, used to control exposure | 8.1 Cont Ingredie 123-86-4 WEL Sh 28182-8 EBW Sh ex 141-78-0 WEL Sh LC 4083-64 WEL Sh LC Se Addition 8.2 Expo Appropr | rol parameters ints with limit values that require monitoring at the workplace: in-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 1468 mg/m ³ , 200 ppm I 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ ng-term value: 0.02 mg/m ³ n; as -NCO al information: The lists valid during the making were used as basis. sure controls fate engineering controls No further data; see section 7. |
| hazardous substances must be selected to meet the requirements of the COSHH Regulations. | 8.1 Cont Ingredie 123-86-4 WEL Sh 28182-8 EBW Sh ex 141-78-0 WEL Sh Lo 4083-64 WEL Sh Lo 5e Addition 8.2 Expo Appropr Individu | rol parameters ints with limit values that require monitoring at the workplace: in-Butyl acetate ort-term value: 966 mg/m ³ , 200 ppm ng-term value: 724 mg/m ³ , 150 ppm I-2 Hexamethylene diisocyanate, oligomers ort-term value: 0.5 mg/m ³ position evaluation valu TRGS 430 (EBW) Ethyl acetate ort-term value: 1468 mg/m ³ , 400 ppm ng-term value: 734 mg/m ³ , 200 ppm I 4-isocyanatosulphonyltoluene ort-term value: 0.07 mg/m ³ ng-term value: 0.02 mg/m ³ n; as -NCO al information: The lists valid during the making were used as basis. sure controls fate engineering controls No further data; see section 7. al protection measures, such as personal protective equipment |

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Breakthrough time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

| SECTION 9: Physical a | and chemical properties |
|-----------------------|-------------------------|
|-----------------------|-------------------------|

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state
- · Colour:
- · Odour:
- · Odour threshold:
- *Melting point/freezing point:*
- · Boiling point or initial boiling point and boiling
- range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- Auto-ignition temperature:
- · Decomposition temperature:

Fluid According to product specification Characteristic Not determined. Undetermined.

77-78 °C (141-78-6 Ethyl acetate) Highly flammable.

1.2 Vol % (123-86-4 n-Butyl acetate) 11.5 Vol % (141-78-6 Ethyl acetate) 14 °C (DIN 53213) 370 °C (DIN 51794, 123-86-4 n-Butyl acetate) Not determined.

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| | (Contd. of page |
|---------------------------------------------------|-------------------------------------------------|
| pH | Not determined. |
| Viscosity: | |
| Kinematic viscosity at 20 °C | 10-15 s (DIN 53211/4) |
| Dynamic: | Not determined. |
| Solubility | |
| water: | Not miscible or difficult to mix. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure at 20 °C: | 97 hPa (141-78-6 Ethyl acetate) |
| Vapour pressure at 50 °C: | 360 hPa |
| Density and/or relative density | |
| Density at 20 °C: | 0.964 g/cm ³ (DIN 53217) |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| 9.2 Other information | |
| Appearance: | |
| Form: | Fluid |
| Important information on protection of health an | d |
| environment, and on safety. | |
| Ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product is not explosive. However, formation of |
| | explosive air/vapour mixtures are possible. |
| Solvent content: | |
| VOC (EC) | 65.50 % |
| Solids content (weight-%): | 34.5 % |
| Change in condition | |
| Evaporation rate | Not determined. |
| • | |
| Information with regard to physical hazard classe | S Void |
| Explosives | Void |
| Flammable gases | |
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Highly flammable liquid and vapour. |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable | |
| gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

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- \cdot 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: Possible in traces. Nitrogen oxides Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid) Carbon monoxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

123-86-4 n-Butyl acetate

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

· Serious eye damage/irritation Causes serious eye irritation.

• Respiratory or skin sensitisation May cause an allergic skin reaction.

· STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) : hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

| 14.1 UN number or ID number | |
|-------------------------------------------------|---------------------------------|
| ADR, IMDG, IATA | UN1263 |
| 14.2 UN proper shipping name | |
| ADR | UN1263 PAINT RELATED MATERIAL |
| IMDG, IATA | PAINT RELATED MATERIAL |
| 14.3 Transport hazard class(es) | |
| ADR | |
| | 2 (El) Elammable liquida |
| Class Label | 3 (F1) Flammable liquids. 3 |
| IMDG, IATA | |
| Class Label | 3 Flammable liquids. 3 |
| 14.4 Packing group ADR, IMDG, IATA | II |
| 14.5 Environmental hazards: | |
| Marine pollutant: | No |
| 14.6 Special precautions for user | Warning: Flammable liquids. |
| Hazard identification number (Kemler code): | 33 |
| EMS Number: Segregation groups | F-E, <u>S-E</u> (SGGI) Acids |
| Stowage Category | B |
| 14.7 Maritime transport in bulk according to IM | 10 |
| instruments | Not applicable. |
| Transport/Additional information: | |
| ADR | |
| Limited quantities (LQ) | 5L |
| Transport category | 2 D/F |
| Tunnel restriction code | D/E |
| IMDG Limited quantities (LQ) | 5L |

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· UN "Model Regulation":

UN 1263 PAINT RELATED MATERIAL, 3, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

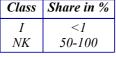
· Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· National regulations:

• Additional classification according to Decree on Hazardous Materials, Annex II:



• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- EUH014 Reacts violently with water.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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REFINISH

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Printing date 22.01.2024

Safety data sheet according to 1907/2006/EC, Article 31

Version number 4 (replaces version 3)



Revision: 22.01.2024

Trade name: Q 70-205HF-1 HS Hardener fast

(Contd. of page 9) · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 • * Data compared to the previous version altered. GB