



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.09.2015

Version number 2

Revision: 28.07.2015




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

- **1.1 Product identifier**
- **Trade name:** **VERSTÄRKER RE**
- **Article number:** 149600.0386.WEL
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Hardening agent/ Curing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
H.B. Fuller, Isar-Rakoll, S.A.
Estrada Nacional 13
PT-4486-851 Mindelo - Vila do Conde
+351 229 288 200
EU-MSDS@hbfuller.com
- **Informing department:** Regulatory Department
- **1.4 Emergency telephone number:**
NCEC emergency service
+44 (0) 1235 239 670 (24 hours)

SECTION 2: Hazards identification

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

| | | |
|---------------|-----------|--|
| Flam. Liq. 2 | H225 | Highly flammable liquid and vapour. |
| Acute Tox. 4 | H332 | Harmful if inhaled. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| Resp. Sens. 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sens. 1 | H317 | May 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 CLP regulation.
- **Hazard pictograms**

| | | |
|---|---|---|
|  |  |  |
| GHS02 | GHS07 | GHS08 |
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Triphenylmethan-4,4',4''-triisocyanat
ethyl acetate
chlorobenzene
p-toluenesulphonyl isocyanate
- **Hazard statements**

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H332 | Harmful if inhaled. |
| H315 | Causes skin irritation. |

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- H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures**Description:**

Polyisocyanate
 Adhesive.

Dangerous components:

| | | |
|--|---|---------|
| CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-0000 | ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 50-100% |
| CAS: 2422-91-5 | Triphenylmethan-4,4',4"-triisocyanat Acute Tox. 2, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | 25-50% |
| CAS: 108-90-7 EINECS: 203-628-5 | chlorobenzene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332 | 1-5% |
| CAS: 4083-64-1 EINECS: 223-810-8 | p-toluenesulphonyl isocyanate Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 0.1-1% |

- **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information**

Instantly remove any clothing soiled by the product.
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- Take affected persons into the open air.
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.
- **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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Nitrous vitriol gases
Carbon monoxide and carbon dioxide
Isocyanate fumes and traces of hydrogen cyanide.
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, 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).
Ensure adequate ventilation.
Do not use tools that can cause ignition.
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.

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Take note of emission threshold.
Use solvent-proof equipment.
Keep out of the reach of children.

· **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
Highly volatile, flammable constituents are released during processing.
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

- **Requirements to be met by storerooms and containers:** Prevent any penetration into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

- Protect from heat and direct sunlight.
- Store in cool, dry conditions in original sealed container
- **Recommended storage temperature:** +10 °C - +25 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

141-78-6 ethyl acetate

| | |
|-----|---|
| WEL | Short-term value: 400 ppm Long-term value: 200 ppm |
|-----|---|

108-90-7 chlorobenzene

| | |
|-----|--|
| WEL | Short-term value: 14 mg/m ³ , 3 ppm Long-term value: 4.7 mg/m ³ , 1 ppm |
| Sk | |

· **DNELs**

Ethylacetat, CAS 141-78-6 (Arbeitnehmer)
dermal Langzeit(chronisch) systemisch: 63 mg/kg/Tag
inhalativ Kurzzeit (akut) systemisch: 1468 mg/m³
inhalativ Langzeit(chronisch) lokal: 734 mg/m³
inhalativ Kurzzeit (akut) lokal: 1468 mg/m³
inhalativ Langzeit (chronisch) systemisch: 734mg/m³

· **PNECs**

Ethylacetat 141-78-6
Wasser Süßwasser: 0,26 mg/l
Wasser Meerwasser: 0,026 mg/l
Wasser Aqua intermittent: 1,65 mg/l
Wasser Süßwasser Sediment: 1,25 mg/kg
Wasser Meerwasser Sediment: 0,125 mg/kg
Boden - 0,24 mg/kg
Kläranlage (STP) - 650 mg/l
Sekundärvergiftung - 200 mg/kg

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- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **Recommended filter device for short term use:** Combination filter A-P2
- **Protection of hands:**



Protective gloves.

Solvent resistant gloves

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

- **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.
Butyl rubber, BR
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed safety glasses.

- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

| | |
|---------|------------------------------------|
| Form: | Fluid |
| Colour: | According to product specification |
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

| | |
|------------------------------|-------------------|
| Melting point/Melting range: | Not determined |
| Boiling point/Boiling range: | 75 °C (DIN 53171) |

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| | |
|---|---|
| · Flash point: | -4 °C (DIN 53213) |
| · Inflammability (solid, gaseous) | Not applicable. |
| · Ignition temperature: | |
| · Decomposition temperature: | Not determined. |
| · Self-inflammability: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/steam mixtures is possible. |
| · Critical values for explosion: | |
| Lower: | 2.2 Vol % (EN 1839) |
| Upper: | 11.5 Vol % (EN 1839) |
| · Vapour pressure at 20 °C: | 97 hPa (DIN 51640) |
| · Density at 20 °C | 0.99 g/cm ³ (DIN 51757) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| dynamic: | Not determined. |
| kinematic at 20 °C: | 11 s (DIN 53211/4) |
| · Solvent content: | |
| Organic solvents: | 70.0 % |
| Solids content: | 27.0 % (ISO 3251) |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**
Reacts with alcohols, amines, aqueous acids and alkalis
Develops readily flammable gases / fumes
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if inhaled.

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- **LD/LC50 values that are relevant for classification:**

- **141-78-6 ethyl acetate**

| | | |
|------|------|------------------|
| Oral | LD50 | 5620 mg/kg (rat) |
|------|------|------------------|

| | | |
|------------|---------|-------------------|
| Inhalative | LC50/4h | 11.72 mg/kg (rat) |
|------------|---------|-------------------|

- **108-90-7 chlorobenzene**

| | | |
|------|------|------------------|
| Oral | LD50 | 2910 mg/kg (rat) |
|------|------|------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

- **141-78-6 ethyl acetate**

| | |
|----------|--------------------------|
| EC50/48h | 717 mg/l (Daphnia magna) |
|----------|--------------------------|

| | |
|----------|-------------------------------------|
| IC50/48h | 3300 mg/l (Desmodesmus subspicatus) |
|----------|-------------------------------------|

| | |
|----------|--------------------------------|
| LC50/96h | 230 mg/l (Pimephales promelas) |
|----------|--------------------------------|

- **12.2 Persistence and degradability**

- **141-78-6 ethyl acetate**

| | |
|---------------------|-----------|
| Bio.Abbaubark./28 d | 100 % (-) |
|---------------------|-----------|

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

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

Must be specially treated under adherence to official regulations.

- **European waste catalogue**

| | |
|-----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 04 00 | wastes from MFSU of adhesives and sealants (including waterproofing products) |
| 08 04 09* | waste adhesives and sealants containing organic solvents or other dangerous substances |

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1993

- **14.2 UN proper shipping name**

- **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, CHLOROBENZENE), special provision 640D

- **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, CHLOROBENZENE)

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class**

3 Flammable liquids.

- **Label**

3

- **14.4 Packing group**

- **ADR, IMDG, IATA**

II

- **14.5 Environmental hazards:**

- **Marine pollutant:**

No

- **14.6 Special precautions for user**

- **Kemler Number:**

Warning: Flammable liquids.

33

- **EMS Number:**

F-E, S-E

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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· **Transport/Additional information:**

· **ADR**

- **Limited quantities (LQ)** 1L
- **Transport category** 2
- **Tunnel restriction code** D/E

· **UN "Model Regulation":**

UN1993, FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, CHLOROBENZENE), special provision 640D, 3, II

SECTION 15: Regulatory information

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

· **National regulations**

· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| I | 0,1-1 |
| NK | 50-100 |

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **VOC (EU) %** 72.04 %
- **Code MAL** 5-5
- **VOC (EU)** 713.2 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they 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.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- 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.
- H411 Toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport 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)

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DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 2: Acute toxicity, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

*** Data compared to the previous version altered.**

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Annex: Exposure scenario

- **Short title of the exposure scenario**

ETHYL ACETATE (CAS141-78-6)
PROFESSIONAL AND INDUSTRIAL USE OF ADHESIVES

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC1 Adhesives, sealants

- **Process category**

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

- **Environmental release category** ERC2 Formulation of preparations

- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use** Customary application according to section 1.

- **Duration and frequency** 5 workdays/week.

- **Physical parameters**

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- **Physical state** Fluid

- **Concentration of the substance in the mixture** Raw material.

- **Other operational conditions** Observe the normal safety regulations when handling chemicals

- **Other operational conditions affecting environmental exposure** No special measures required.

- **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.

- **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

- **Risk management measures**

- **Worker protection**

- **Organisational protective measures** No special measures required.

- **Technical protective measures**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed safety glasses.

Protective gloves.

- **Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

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- **Environmental protection measures**
- **Water** No special measures required.
- **Disposal measures** Disposal must be made according to official regulations.
- **Disposal procedures**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.

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