



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2015



Version number 6

Revision: 02.12.2015

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

- **1.1 Product identifier**
- **Trade name** VERSTÄRKER RFE
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Adhesives
- **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:** +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 H302 Harmful if swallowed.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 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
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE  
ethyl acetate
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H336 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.

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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 in organic solvents

- **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: 4151-51-3	Tris (p-isocyanatophenyl) thiophosphate Resp. Sens. 1, H334	25-50%
CAS: 108-90-7 EINECS: 203-628-5	chlorobenzene Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332	0.5-1%

- **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** Take affected persons into the open air.

- **After inhalation** Supply fresh air.

- **After skin contact** The product is not skin irritating.

- **After eye contact**

Rinse opened eye for several minutes (15 min) 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**

Water haze

Foam

Fire-extinguishing powder

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- Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
In case of fire CO, NOx, isocyanates and traces of HCN can be formed.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter drains.

### 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  
Use breathing protection against the effects of fumes/dust/aerosol.  
Wear protective clothing.
- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Send for recovery or disposal in suitable containers.  
Use non sparking handtools.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)
- **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.  
Prevent formation of aerosols.  
Ensure that suitable extractors are available on processing machines  
Take note of emission threshold.  
Use solvent-proof equipment.  
Keep away from children  
Keep eye wash bottles available on working place.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
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.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Store in cool location.
  - Keep dark, cool and dry.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Please take care on national and local requirements.

- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**

#### 141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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- **DNELs**

#### ETHYL ACETATE (CAS141-78-6):

Human exposure:

- DNEL: 1468 mg/m<sup>3</sup> (acute systemic effects; inhalation; workers)
- DNEL: 1468 mg/m<sup>3</sup> (acute local effects; inhalation; workers)
- DNEL: 734 mg/m<sup>3</sup> (long-term systemic effects; inhalation; workers)
- DNEL: 734 mg/m<sup>3</sup> (long-term local effects; inhalation; workers)
- DNEL: 63 mg/kg body weight/day (long-term systemic effects; dermal; workers)

- DNEL: 734 mg/m<sup>3</sup> (acute systemic effects; inhalation; general population)
- DNEL: 734 mg/m<sup>3</sup> (acute local effects; inhalation; general population)
- DNEL: 367 mg/m<sup>3</sup> (long-term systemic effects; inhalation; general population)
- DNEL: 4,5 mg/kg body weight/day (long-term systemic effects; oral; general population)
- DNEL: 367 mg/m<sup>3</sup> (long-term local effects; inhalation; general population)
- DNEL: 37 mg/kg body weight/day (long-term systemic effects; dermal; general population)

- **PNECs**

#### ETHYL ACETATE (CAS 141-78-6):

Environment:

- PNEC (freshwater): 0.26 mg/L (based on the lowest chronic toxicity value NOEC = 2.6 mg/L for invertebrates and assessment factor 10).
- PNEC (saltwater): 0.026 mg/L (based on the lowest chronic toxicity value NOEC = 2.6 mg/L for invertebrates and assessment factor 100).
- PNEC (intermittent releases): 1.65 mg/L (based on the lowest aquatic toxicity value EC50 = 165 mg/L for invertebrates and assessment factor 100).
- PNEC (sediment, freshwater): 1.25 mg/kg dry weight (based on partition coefficient method).
- PNEC (sediment, saltwater): 0.125 mg/kg dry weight (based on partition coefficient method).
- PNEC (soil): 0.24 mg/kg dry weight (based on partition coefficient method).
- PNEC (sewage treatment plant): 650 mg/L (based on the lowest effect concentration for micro-organisms EC10 = 650 mg/L and assessment factor 1).

- **Additional information:** Based on information valid at the time of writing.

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- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from food, drink and animal feedingstuffs.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.  
Not necessary if room is well-ventilated.  
Ensure that suitable extractors are available on processing machines
- **Recommended filter device for short term use:** Filter A
- **Protection of hands:**  
made of natural rubber latex  
Solvent resistant gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves** 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:	Yellow-brown
Smell:	Characteristic
Odour threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	75 °C
- **Flash point:** -5 °C
- **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 vapour/air mixtures is possible.
- **Critical values for explosion:**

Lower:	2.1 Vol %
Upper:	11.5 Vol %

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· Vapour pressure at 20 °C:	100 hPa
· Density at 20 °C	1 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic at 20 °C:	10 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	73.0 %
Solids content:	27.0 %
· 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:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable vapours / 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 swallowed.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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 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.

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### 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.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Do not allow undiluted product or large quantities of it 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.

### 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.  
Hand over to disposers of hazardous waste.  
Incineration under approved, controlled conditions using incinerators suitable or designed for the disposal of hazardous chemical wastes, is the preferred method for disposal.
  - **European waste catalogue**
- |           |  |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other dangerous substances |
|-----------|--|
- **Uncleaned packagings:** S 60 is only applicable for liquid or unreacted materials.
  - **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |   |
|--|---|
| · <b>14.1 UN-Number</b>                  |   |
| · <b>ADR, IMDG, IATA</b>                 | UN1993  |
| · <b>14.2 UN proper shipping name</b>    |   |
| · <b>ADR</b>                             | 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE) |
| · <b>IMDG, IATA</b>                      | FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)      |
| · <b>14.3 Transport hazard class(es)</b> |   |
| · <b>ADR, IMDG, IATA</b>                 |   |
| · <b>Class</b>                           | 3 Flammable liquids.                          |
| · <b>Label</b>                           | 3   |
| · <b>14.4 Packing group</b>              |   |
| · <b>ADR, IMDG, IATA</b>                 | II  |

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<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b> No</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b> Warning: Flammable liquids.</li> <li>· <b>Kemler Number:</b> 33</li> <li>· <b>EMS Number:</b> F-E,S-D</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> Not applicable.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b> 1L</li> <li>· <b>Excepted quantities (EQ)</b> Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> <li>· <b>Transport category</b> 2</li> <li>· <b>Tunnel restriction code</b> D/E</li> <li>· <b>Remarks:</b> ADR 2001 - classification: ADR-Code F1</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b> 1L</li> <li>· <b>Excepted quantities (EQ)</b> Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> <li>· <b>Remarks:</b> Suitable UN approved container necessary.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> <li>· <b>Remarks:</b> Suitable UN approved container necessary.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b> UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE), 3, II</li> </ul>	

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **VOC (EU) in %:** 72.00 %
- **VOC (EU) in g/l:** 720.0 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. The information provided about the product on this Safety Sheet has been compiled from knowledge of the individual constituent.

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The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

- **Relevant phrases**

- H225 Highly flammable liquid and vapour.

- H226 Flammable liquid and vapour.

- H319 Causes serious eye irritation.

- H332 Harmful if inhaled.

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- H336 May cause drowsiness or dizziness.

- H411 Toxic to aquatic life with long lasting effects.

- **Department issuing data sheet:** Regulatory department

- **Contact:** EU-MSDS@hbfuller.com

- **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)

- ICAO: International Civil Aviation Organisation

- 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)

- DNEL: Derived No-Effect Level (REACH)

- PNEC: Predicted No-Effect Concentration (REACH)

- PBT: Persistent, Bioaccumulative and Toxic

- SVHC: Substances of Very High Concern

- 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

- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

- Resp. Sens. 1: Sensitisation - Respirat., 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

ethyl acetate

- **Short title of the exposure scenario** Use in coatings and adhesives (industrial)
- **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
  - 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)
  - PROC3 Use in closed batch process (synthesis or formulation)
  - PROC7 Industrial spraying
  - 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)
  - PROC10 Roller application or brushing
  - PROC13 Treatment of articles by dipping and pouring
  - PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
  - PROC15 Use as laboratory reagent
- **Environmental release category**
  - ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** Use at not higher than 20 °C above the ambient temperature is assumed
- **Duration and frequency**
  - 8hrs (full working shift).
  - 5 workdays/week.
- **Environment** Flow rate of receiving surface water: > 18000m<sup>3</sup>/d
- **Physical parameters**
- **Physical state** Liquid
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** 5500 tons per year
- **Other operational conditions** Protect against electrostatic charges.
- **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.
- **Risk management measures** Ensure that suitable extractors are available on processing machines
- **Worker protection**
  - Ensure adequate ventilation
  - Do not inhale gases / fumes / aerosols.
- **Organisational protective measures** Keep good industrial hygiene.
- **Technical protective measures**
  - efficiency of local exhaust ventilation (LEV): 95%
  - Ensure sufficient ventilation at working area (1-3 times air exchange per hour).
  - Provide explosion-proof electrical equipment.
  - Keep containers tightly sealed.

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Ensure that suitable extractors are available on processing machines

- **Personal protective measures**

Wear protective clothing.

Safety glasses

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed safety glasses.

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Use breathing protection in case of insufficient ventilation.

Wear suitable protective gloves and protective goggles /face protection during work.

- **Environmental protection measures**

- **Air** Avoid emissions to the air

- **Water**

Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%):87

Do not allow to reach sewage system.

- **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**

- **Worker (dermal)** The calculated value is smaller than the DNEL.

- **Worker (inhalation)** The calculated value is smaller than the DNEL.

- **Environment** The calculated value is smaller than the PNEC.

- **Consumer** Not relevant for this Exposure Scenario.

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