

**Material safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 12.09.2017

Version number 5

Revision: 12.09.2017

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

· **1.1 Product identifier**

· **Trade name:** STAMCOLL N55

· **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** Adhesives

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Serge Ferrari AG

Wasterkingergweg 2

Postfach 2

CH-8193 Eglisau

infoCH@sergeferrari.com

Tel. +41 (0) 44 868 26 26

Fax +41 (0) 44 868 27 27

· **Informing department:**

General product information

infoch@sergeferrari.com

· **1.4 Emergency telephone number:**

Tox Info Suisse

24-h-Notfallnummer: 145 (aus dem Ausland: +41 44 251 51 51)

Auskunft: +41 44 251 66 66

Giftnotruf München (24-Hour-Number)

+49 (0)89-19240

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS07

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.

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· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Danger· **Hazard-determining components of labelling:**

acetone  
ethyl acetate  
Butanone

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
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.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.

· **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:** Adhesive· **Dangerous components:**

CAS: 67-64-1	acetone	25-<50%
EINECS: 200-662-2	Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3,	
Reg.nr.: 01-2119471330-49	H336	

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CAS: 141-78-6 ethyl acetate 25-<50%  
EINECS: 205-500-4  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3,  
Reg.nr.: 01-2119475103-46 H336

CAS: 78-93-3 Butanone 2.5-<10%  
EINECS: 201-159-0  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3,  
Reg.nr.: 01-2119457290-43 H336

· **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**
- **After inhalation** Supply fresh air.
- **After skin contact**  
Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **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**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources.

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- **6.2 Environmental precautions:**  
*Do not allow product to reach sewage system or any water course.  
 Inform respective authorities in case of seepage into water course or sewage system.*
- **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 item 13.  
 Ensure adequate ventilation.  
 Do not flush with water or aqueous cleansing agents*
- **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.*

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
*Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.*
- **Information about protection against explosions and fires:**  
*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 containers:** *Store in a cool location.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep receptacle tightly sealed.*
- **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 critical values that require monitoring at the workplace:**
- **67-64-1 acetone**  
*WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm  
 Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm*
- **141-78-6 ethyl acetate**  
*WEL Short-term value: 400 ppm  
 Long-term value: 200 ppm*

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**78-93-3 Butanone**WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppmLong-term value: 600 mg/m<sup>3</sup>, 200 ppm

Sk, BMGV

**· DNELs****67-64-1 acetone**

Oral DNEL 62 mg/kg/day (general population (long-term))

Dermal DNEL 62 mg/kg/day (general population (long-term))

186 mg/kg/day (workwr (long-term))

Inhalative DNEL 200 mg/m<sup>3</sup> (general population (long-term))2420 mg/m<sup>3</sup> (workers (short-term))1210 mg/m<sup>3</sup> (workwr (long-term))**141-78-6 ethyl acetate**

Dermal DNEL 37 mg/kg/day (consumer (long-term))

63 mg/kg/day (workwr (long-term))

Inhalative DNEL 734 mg/m<sup>3</sup> (consumer (short-term))367 mg/m<sup>3</sup> (consumer (long-term))1468 mg/m<sup>3</sup> (workers (short-term))734 mg/m<sup>3</sup> (workwr (long-term))**78-93-3 Butanone**

Oral DNEL 31 mg/kg/day (general population (long-term))

Dermal DNEL 412 mg/kg/day (general population (long-term))

1161 mg/kg/day (workwr (long-term))

Inhalative DNEL 106 mg/m<sup>3</sup>/day (general population (long-term))600 mg/m<sup>3</sup>/day (workwr (long-term))**· PNECs****67-64-1 acetone**

PNEC 10.6 mg/l (freshwater)

1.06 mg/l (sea water)

21 mg/l (water - partially release)

100 mg/l (STP)

PNEC 29.5 mg/kg (soil)

3.04 mg/kg (sediment (sea water))

30.4 mg/kg (sediment (freshwater))

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**141-78-6 ethyl acetate**

PNEC 0.26 mg/l (freshwater)  
 0.026 mg/l (sea water)  
 0.125 mg/l (sediment (sea water))  
 1.25 mg/l (sediment (freshwater))  
 650 mg/l (purification plant)

**78-93-3 Butanone**

PNEC 55.8 mg/l (freshwater)  
 55.8 mg/l (sea water)  
 PNEC 22.5 mg/kg (soil)  
 287.7 mg/kg (sediment (sea water))  
 284.7 mg/kg (sediment (freshwater))

**· Ingredients with biological limit values:****78-93-3 Butanone**

BMGV 70 µmol/L  
 Medium: urine  
 Sampling time: post shift  
 Parameter: butan-2-one

· **Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls****· Personal protective equipment****· General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**· Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

· **Recommended filter device for short term use:** Combination filter A-P2

**· Protection of hands:**

Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

**· Material of gloves**

Butyl rubber, BR

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*Recommended thickness of the material:  $\geq 0.7$  mm*

*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.*

· **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 goggles

· **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:** Opaque

· **Smell:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** 55 °C

· **Flash point:** -18 °C

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 375 °C

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Critical values for explosion:**

**Lower:** 2,1 Vol %

**Upper:** 13,0 Vol %

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- **Steam pressure at 20 °C:** 247 hPa
- **Density at 20 °C** 0,85 g/cm<sup>3</sup> (EN ISO 2811-1)
- **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 at 20 °C:** 2300 mPas (ISO 2555)
- **kinematic at 40 °C:** 1750 mm<sup>2</sup>/s
- **Solvent content:**
- **Organic solvents:** 65,3 %
- **Water:** 0,0 %
- **VOC** 65,3 %
- 65.29 %
- **Solids content:** 34,7 % (DIN EN 827.8.2)
- **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** No dangerous reactions known.
- **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** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

**67-64-1 acetone**

Oral LD50 5800 mg/kg (rat) (OECD RL 401)  
 Dermal LD50 >15800 mg/kg (rat)

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*Inhalative LC50/4h 76 mg/l (rat)*

**141-78-6 ethyl acetate**

*Oral LD50 5620 mg/kg (rat)*

*Dermal LD50 >20000 mg/kg (rabbit)*

*Inhalative LC50/8h 58 mg/l (rat)*

**78-93-3 Butanone**

*Oral LD50 3300 mg/kg (rat)*

*Dermal LD50 5000 mg/kg (rbt)*

*Inhalative LC50/4h 10000 mg/l (rat)*

- **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.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:**

**67-64-1 acetone**

*NOEC/16h 1700 mg/l (Pseudomonas putida)*

*NOEC/48h 4740 mg/l (Selenastrum capricornutum)*

*LC50/96h 11300 mg/l (Leuciscus idus) (DIN 38412 T.15)*

*5540 mg/l (Oncorhynchus mykiss)*

*8300 mg/l (Lepomis macrochirus)*

*LC50/48h 12600 mg/l (Daphnia magna)*

*11300 mg/l (Leuciscus idus)*

*EC5/16h 1700 mg/l (Pseudomonas putida)*

*EC5/72h 28 mg/l (Entosiphon sulcatum)*

*EC5/8d 530 mg/l (Microcystis aerruginosa)*

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EC50/18h 12600-12700 mg/l (*Daphnia magna*)

EC50/48h 6100 mg/l (*Daphnia magna*)

EC50/96h 8300 mg/l (*Lepomis macrochirus*)

**141-78-6 ethyl acetate**

LC50/96h 230 mg/l (*Pimephales promelas*)

LC50/48h 333 mg/l (*Leuciscus idus*)

EC10/18h 2900 mg/l (*Pseudomonas putida*)

EC50/48h 3300 mg/l (*Scenedesmus subspicatus*)

717 mg/l (*Daphnia magna*)

**78-93-3 Butanone**

LC50/96h 3220 mg/l (*Pimephales promelas*)

EC5/16h 1150 mg/l (*Pseudomonas putida*)

IC5/7d 1300 mg/l (algae)

EC50/48h >100 mg/l (*Daphnia magna*)

· **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:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course 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 together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering 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

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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 hazardous substances

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

**SECTION 14: Transport information**

- **14.1 UN-Number** UN1133
- **ADR, IMDG, IATA**
- **14.2 UN proper shipping name** 1133 ADHESIVES
- **ADR** ADHESIVES
- **IMDG, IATA**
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group** III
- **ADR, IMDG, IATA**
- **14.5 Environmental hazards:** Not applicable.
- **Marine pollutant:** nein
- **14.6 Special precautions for user** Warning: Flammable liquids.
- **Kemler Number:** -
- **EMS Number:** F-E,S-D
- **Stowage Category** A
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **Transport category** 3
- **Tunnel restriction code** E

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- **IMDG**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 1133 ADHESIVES, 3, III

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **VOC:**
- **VOC (EU)** 555.0 g/l
- **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.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **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)  
VOC: Volatile Organic Compounds (USA, EU)  
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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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 – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

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