

Safety data sheet
according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

1 Identification

· **Product identifier**

· **Trade name:** **1-NG120**

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Product category** PC1 Adhesives, sealants

· **Application of the substance / the mixture** Adhesives

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

· **Manufacturer/Supplier:**

HOTTINGER BRUEL & KJAER UK LTD
Advanced Manufacturing Park Technology Centre
Brunel Way, Catcliffe, Rotherham
South Yorkshire, S60 5WG
United Kingdom
Phone: +44 (0) 1145 512230
Email: info@uk.hbm.com

· **Informing department:**

Tel. +49(0)6131 19240
EMail support-esa@hbkworld.com

· **Emergency telephone number:**

Gift-Informationszentrum Nord, Göttingen
Poison Information Center, Göttingen
Tel.: +49 (0)551 19240
(German and English only)

United Kingdom:

National Poisons Information Service
Emergency number: +44 844 892 0111

Poisons Information Centre of Ireland:

+353 1 837 9964 for medical professionals
+353 1 809 2166 for public inquiries
CHEMTREC: +44 20 3807 3798 (24h emergency call).
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

2 Hazards identification

· **Classification of the substance or mixture**



GHS02 flame

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

(Contd. on page 2)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 1)



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02 GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Fumarated rosin
 acetone
 salicylic acid

- **Hazard statements**

H225 Highly flammable liquid and vapour.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

- **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.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection / face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- **Additional information:**

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

- **Other hazards**

- **Results of PBT and vPvB assessment**

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

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture of the substances listed below, possibly with undeclared additives.

(Contd. on page 3)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 2)

· Dangerous components:

67-64-1	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25 - 100%
65997-04-8	Fumarated rosin Eye Dam. 1, H318; Skin Sens. 1, H317	≥ 3 - ≤ 10%
69-72-7	salicylic acid Eye Dam. 1, H318; Acute Tox. 4, H302	≥ 2.5 - < 3%
1314-13-2	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥ 0.25 - < 2.5%
98-54-4	4-tert-butylphenol Repr. 2, H361; Eye Dam. 1, H318; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	≥ 0.25 - < 1%

· SVHC

98-54-4 4-tert-butylphenol

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· Description of first aid measures

· General information

Personal protection for the First Aider.

If symptoms occur or in case of doubt consult a doctor.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· After skin contact

Wash affected areas with plenty of water.

If skin irritation continues, consult a doctor.

· After eye contact

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

Remove contact lenses if possible.

· After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· **Most important symptoms and effects, both acute and delayed** Allergic reactions

· **After skin contact:** skin irritation

· **After eye contact:** Risk of serious eye damage

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents

Extinguishing powder, foam 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.

· Special hazards arising from the substance or mixture

Inhalation of combustion gases may cause serious health hazards.

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Hydrogen cyanide (HCN)

(Contd. on page 4)

Safety data sheet according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 3)

Hydrocarbons

- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear protective clothing.
- **Additional information** Remove goods in stock from incendiary zone, if possible.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Keep away from sources of ignition - No smoking.
- **For non-emergency personnel** Avoid contact with the product.
- **For emergency responders** Put on suitable personal protective equipment.
- **Environmental precautions:**
Do not allow to enter drainage system, ground/soil and water bodies.
Dilute with much water.
Inform respective authorities in case product reaches water or sewage system.
If material reaches soil inform authorities responsible for such cases.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the material collected according to regulations.
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **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.
- **Handling**
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
Wear suitable protective clothing at work.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

SG

(Contd. on page 5)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 4)

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
OEL: Occupational Exposure Limit

67-64-1 acetone

PEL (Singapore)	Short-term value: 2380 mg/m ³ , 1000 ppm Long-term value: 1780 mg/m ³ , 750 ppm
WSH (Singapore)	Short-term value: 2380 mg/m ³ , 1000 ppm Long-term value: 1780 mg/m ³ , 750 ppm
PEL (Malaysia)	Long-term value: 1187 mg/m ³ , 500 ppm
WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off all contaminated clothing immediately.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
filter A/P.
- **Protection of hands:**



Protective gloves.

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

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

- **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

Recommended material thickness: 0.7 mm, breakthrough time: 480 min.

Nitrile rubber, NBR

Recommended material thickness: 0.4 mm, breakthrough time: 480 min.

- **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.

(Contd. on page 6)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 5)

· **Eye protection:**

Safety goggles according to EN 166.



Face protection

· **Body protection:**

Protective work clothing.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Physical state**

Liquid

· **Colour:**

Brown

· **Odour:**

Acetone-like

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Initial boiling point and boiling range:**

56 °C

· **Flash point:**

< -20 °C

· **Evaporation rate**

Not determined.

· **Inflammability (solid, gaseous)**

Highly flammable.

· **Critical values for explosion:**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Vapour pressure:**

Not determined.

· **Vapour density**

Not determined.

· **Density at 20 °C**0.9 g/cm³· **Relative density**

Not determined.

· **Solubility in / Miscibility with**· **Water:**

Slightly soluble

· **Partition coefficient: n-octanol/water:**

Not determined.

· **Auto-ignition temperature:**

Product is not selfigniting.

· **Decomposition temperature:**

Not determined.

· **SADT**· **Viscosity:**· **kinematic at 40 °C:**1.667 mm²/s· **dynamic:**

Not determined.

· **Particle characteristics**

No further details.

(Contd. on page 7)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 6)

- **Other information**
- **Appearance:**
- **Form:** Viscous
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Solvent content:**
- **Organic solvents:** 40 - 70 %

10 Stability and reactivity

- **Reactivity** The product is stable under normal handling and storage conditions (dry).
- **Chemical stability** The product is stable under normal handling and storage conditions (see section 7).
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** All sources of ignition: heat, sparks, open flame, electostatic discharges.
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

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

ATE (Acute Toxicity Estimates)

Oral	LD50	> 29,700 mg/kg (Rat)
------	------	----------------------

67-64-1 acetone

Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	> 7,426 mg/kg (guinea pig) (21 CFR 191.10)
		> 7,426 mg/kg (rabbit) (21 CFR 191.10)
Inhalative	LC50	132 mg/l/3h (Rat)

65997-04-8 Fumarated rosin

Oral	LD50	2,000 mg/kg (Rat)
------	------	-------------------

69-72-7 salicylic acid

Oral	LD50	891 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 10,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	> 700 mg/l/7h (Rat)

1314-13-2 zinc oxide

Oral	LD50	> 5,000 mg/kg (Rat) (OECD 401)
Inhalative	LC50	> 5.7 mg/l/4h (Rat) (OECD 403)

(Contd. on page 8)

-SG

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 7)

98-54-4 4-tert-butylphenol

Oral LD50 > 2,000 mg/kg (Rat) (OECD 401)

Dermal LD50 > 16,000 mg/kg (rabbit) (OECD 402)

· **Primary irritant effect:**· **Serious eye damage/irritation** Irritant effect.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

· **Repeated dose toxicity****67-64-1 acetone**

Oral NOAEL (90d) 3,100 mg/kg bw/day (Rat) (OECD 408)

1314-13-2 zinc oxide

Oral NOAEL (90d) > 81 mg/kg bw/day (ferret)

98-54-4 4-tert-butylphenol

Oral NOAEL (90d) 50 mg/kg bw/day (Rat)

12 Ecological information· **Toxicity**· **Aquatic toxicity:****67-64-1 acetone**

EC50 > 10,000 mg/l/24h (Daphnia magna)

LC50 (dynamic) 8,120 mg/l/96h (Pimephales promelas) (OECD 203)

65997-04-8 Fumarated rosin

EC50 16 - 1,000 mg/l/48h (aquatic invertebrates)

IC50 100 - 1,000 mg/l/72h (aquatic algae and cyanobacteria)

LC50 9,3 - 1,000 mg/l/96h (fish)

1314-13-2 zinc oxide

EC50 (static) 2.6 mg/l/48h (Daphnia magna) (OECD 202)

IC50 (static) 0.136 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

LC50 (static) 0.727 mg/l/96h (Oncorhynchus kisutch)

1.793 mg/l/96h (Brachydariorerio)

EC50 (static) 0.136 mg/l/72h (Raphidocelis subcapitata)

NOEC 0.024 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

98-54-4 4-tert-butylphenol

EC50 (static) 4.8 mg/l/48h (Daphnia magna) (OECD 202)

LC50 > 1 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

EC50 (static) 14 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

· **Persistence and degradability** No further relevant information available.· **Other information:** There are no data available about the preparation.· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

(Contd. on page 9)

SG

Safety data sheet according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120



(Contd. from page 8)

- **Other adverse effects** No further relevant information available.
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Harmful to aquatic organisms

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · UN-Number · ADR/RID, IMDG, IATA | UN1133 |
| <ul style="list-style-type: none"> · UN proper shipping name · ADR/RID · IMDG, IATA | 1133 ADHESIVES, special provision 640D
ADHESIVES |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADR/RID | |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label | 3 (F1) Flammable liquids.
3 |
| <ul style="list-style-type: none"> · IMDG | |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label | 3 Flammable liquids.
3 |

(Contd. on page 10)

Safety data sheet according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 9)

· IATA



- **Class** 3 Flammable liquids.
Not Restricted.
- **Label** 3

- **Packing group**
- **ADR/RID, IMDG, IATA** II

- **Environmental hazards:** Not applicable.

- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

- **ADR/RID**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
- **Transport category** 2
- **Tunnel restriction code** D/E

- **IMDG**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

- **Special precautions for user** Warning: Flammable liquids.
- **Kemler Number:** 33
- **EMS Number:** F-E, S-D
- **Stowage Category** B

- **UN "Model Regulation":** UN 1133 ADHESIVES, 3, II

15 Regulatory information

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

- **Poisons Act - Schedule 1**

None of the ingredients is listed.

- **Poisons Act - Schedule 2, Group II**

None of the ingredients is listed.

- **Health Products Act - First Schedule - Psychotropic Substances**

None of the ingredients is listed.

- **Chemical safety assessment**
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t**

(Contd. on page 11)

Safety data sheet

according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

Trade name: 1-NG120

(Contd. from page 10)

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

- **National regulations**

- **Water hazard class:**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

98-54-4	4-tert-butylphenol
---------	--------------------

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.


H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing data specification sheet:**

 **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

© DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.

- **Kit-Components:**

- **Abbreviations and acronyms:**

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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1