

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

- **1.1 Product identifier**
- **Trade name:** NormaFINE 80 Comp. A
- **UFI:** DR19-H0HY-0002-WX1P
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** Coating
- **Application of the substance / the mixture**  
 2-comp. polyurethane paint, Comp. A  
 Uses in Coatings - Industrial use  
 Uses in Coatings - Professional use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Nor-Maali Oy  
 Vanhatie 20, 15240 Lahti, FINLAND
- **Further information obtainable from:** MSDS (Nor-Maali Oy) tel.+358 3 874 650, sds@nor-maali.fi
- **1.4 Emergency telephone number:** Contact National Poison Center

**SECTION 2: Hazards identification**

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

- **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**



GHS02

- **Signal word** Warning
- **Hazard statements**  
 H226 Flammable liquid and vapour.
- **Precautionary statements**  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 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 [or shower].  
 P403+P235 Store in a well-ventilated place. Keep cool.
- **Additional information:**  
 EUH208 Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate. May produce an allergic reaction.  
 EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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**Determination of endocrine-disrupting properties**

78-93-3 butanone

List II

**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	10 - 25%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5 - 10%
CAS: 13939-25-8 EINECS: 237-714-9 Reg.nr.: 01-2119970565-28-	Aluminium dihydrogen phosphate Eye Irrit. 2, H319	1 - 10%
CAS: 128601-23-0 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-	Hydrocarbons, C9, aromatics (< 0.1% benzene) Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1 - 2.5%
CAS: 220926-97-6 ELINCS: 432-840-2 Reg.nr.: 01-0000017900-73-	12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine Acute Tox. 4, H332; Aquatic Chronic 4, H413	1 - 2.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	1 - 2.5%
CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10-	propylidynetrimethanol Repr. 2, H361fd	< 0.3%
CAS: 149-57-5 EINECS: 205-743-6 Reg.nr.: 01-2119488942-23-	2-ethylhexanoic acid Repr. 2, H361d	< 0.2%
CAS: 1065336-91-5 EC number: 915-687-0 Reg.nr.: 01-2119491304-40-	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	< 0.058%

**Additional information:**

Contains: > 1 % TiO<sub>2</sub> (<10 µm)

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:**

Never give anything by mouth or induce vomiting to an unconscious person or a person who has convulsions.

**After inhalation:**

Remove person exposed to excessive solvent concentrations to fresh air, keep patient warm and at rest. If breathing is irregular, call national emergency number, if needed start giving artificial respiration and seek medical advice.

**After skin contact:**

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**After eye contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

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- **After swallowing:**  
 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.
- **Information for doctor:** Treatment according to symptoms.
- **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:** Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
 In a fire or if heated, a pressure increase will occur and the container may burst.
- **5.3 Advice for firefighters**  
 Evacuate people from danger area and deny access to area. Remove containers from danger area and try to cool containers which cannot be removed safely.
- **Protective equipment:** Compressed air respirator and protective clothing.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **6.2 Environmental precautions:**  
 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **6.3 Methods and material for containment and cleaning up:**  
 Absorb liquid components with liquid-binding material (sand, peat or other absorbent material). Ensure adequate ventilation.
- **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**  
 Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.  
 When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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- **Information about fire - and explosion protection:**  
 Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
 Store in accordance with local regulations. Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. Keep away from: oxidising agents, strong alkalis, strong acids. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **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**

HTP	Short-term value: 725 mg/m <sup>3</sup> , 150 ppm Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
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**78-93-3 butanone**

HTP	Short-term value: 300 mg/m <sup>3</sup> , 100 ppm Long-term value: 60 mg/m <sup>3</sup> , 20 ppm skin
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**108-65-6 2-methoxy-1-methylethyl acetate**

HTP	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 270 mg/m <sup>3</sup> , 50 ppm skin
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· **DNELs**

**123-86-4 n-butyl acetate**

Dermal	DNEL	7 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	480 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**78-93-3 butanone**

Dermal	DNEL	1,161 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	600 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**13939-25-8 Aluminium dihydrogen phosphate**

Dermal	DNEL	32.9 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	11.52 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**128601-23-0 Hydrocarbons, C9, aromatics (< 0.1% benzene)**

Dermal	DNEL	25 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	150 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**220926-97-6 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine**

Inhalative	DNEL	0.332 mg/m <sup>3</sup> (Workers - Long-term local effects)
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**108-65-6 2-methoxy-1-methylethyl acetate**

Dermal	DNEL	796 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	275 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**77-99-6 propylidynetrimethanol**

Dermal	DNEL	940 µg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	3.3 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**149-57-5 2-ethylhexanoic acid**

Dermal	DNEL	2 mg/kg bw/day (Workers - Long-term systemic effects)
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**Safety data sheet**  
**(EC) 1907/2006 (REACH), Annex II, as amended by Regulation**  
**(EU) 2021/848**

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Inhalative	DNEL	14 mg/m <sup>3</sup> (Workers - Long-term systemic effects)
<b>1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate</b>		
Dermal	DNEL	1.8 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	1.27 mg/m <sup>3</sup> (Workers - Long-term systemic effects)

**· PNECs**

**123-86-4 n-butyl acetate**

PNEC	0.18 mg/L (Freshwater)
	0.018 mg/L (Marine water)
	35.6 mg/L (Sewage treatment)
PNEC	0.981 mg/kg dwt (Fresh water sediment)
	0.0981 mg/kg dwt (Marine water sediment)
	0.0903 mg/kg dwt (Soil)

**78-93-3 butanone**

PNEC	55.8 mg/L (Freshwater)
	55.8 mg/L (Marine water)
	709 mg/L (Sewage treatment)
PNEC	284.74 mg/kg dwt (Fresh water sediment)
	284.7 mg/kg dwt (Marine water sediment)
PNEC	1,000 mg/kg (Secondary Poisoning)
	22.5 mg/kg (Soil)

**13939-25-8 Aluminium dihydrogen phosphate**

PNEC	30 µg/L (Freshwater)
	3 µg/L (Marine water)

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC	0.635 mg/L (Freshwater)
	0.0635 mg/L (Marine water)
	100 mg/L (Sewage treatment)
PNEC	3.29 mg/kg dwt (Fresh water sediment)
	0.329 mg/kg dwt (Marine water sediment)
PNEC	0.29 mg/kg (Soil)

**149-57-5 2-ethylhexanoic acid**

PNEC	0.398 mg/L (Freshwater)
	0.0398 mg/L (Marine water)
	71.7 mg/L (Sewage treatment)
PNEC	4.74 mg/kg dwt (Fresh water sediment)
	0.474 mg/kg dwt (Marine water sediment)
	0.712 mg/kg dwt (Soil)

**1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate**

PNEC	1 mg/L (Sewage treatment)
PNEC	1.05 mg/kg dwt (Fresh water sediment)
	0.11 mg/kg dwt (Marine water sediment)
PNEC	0.21 mg/kg (Soil)
PNEC	2.2 µg/L (Freshwater)
	0.22 µg/L (Marine water)

**· Additional information:**

The information is based on the valid lists at the time of manufacture (Finland 654/2020).

**· 8.2 Exposure controls**

**· Appropriate engineering controls** No further data; see item 7.

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· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the HTP, suitable respiratory protection must be worn.

· **Respiratory protection:**

If ventilation is insufficient or if workers are exposed to concentrations above the exposure limit they must use half- or full mask with gas filter A (brown, organic substances), and when grinding P2 (IIB) -type dust filter. Mask with combined filter (gas & dust) A2-P2 must be used when spraying. In the continuous long-term work it is recommended to use motored air protector or separative protector (fresh air hood or compressed air hood or such).

· **Hand protection**



Protective gloves

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

· **Material of gloves**

Wear suitable gloves tested to EN374.

May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber, nitrile rubber

· **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/face protection**



Tightly sealed goggles

The eye flushing device should be located near the the paint work area.

· **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

According to product specification

· **Odour:**

Strong

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

124 - 128 °C (123-86-4 n-butyl acetate)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

1.2 Vol % (123-86-4 n-butyl acetate)

· **Upper:**

7.5 Vol % (123-86-4 n-butyl acetate)

· **Flash point:**

23 °C

· **Ignition temperature:**

370 °C (123-86-4 n-butyl acetate)

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity at 40 °C**

> 20.5 mm<sup>2</sup>/s

· **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:**

10.7 hPa (123-86-4 n-butyl acetate)

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<ul style="list-style-type: none"> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b> 1.26 - 1.37 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Fluid</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Auto-ignition temperature:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> Void</li> <li>· <b>Flammable gases</b> Void</li> <li>· <b>Aerosols</b> Void</li> <li>· <b>Oxidising gases</b> Void</li> <li>· <b>Gases under pressure</b> Void</li> <li>· <b>Flammable liquids</b> Flammable liquid and vapour.</li> <li>· <b>Flammable solids</b> Void</li> <li>· <b>Self-reactive substances and mixtures</b> Void</li> <li>· <b>Pyrophoric liquids</b> Void</li> <li>· <b>Pyrophoric solids</b> Void</li> <li>· <b>Self-heating substances and mixtures</b> Void</li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> Void</li> <li>· <b>Oxidising liquids</b> Void</li> <li>· <b>Oxidising solids</b> Void</li> <li>· <b>Organic peroxides</b> Void</li> <li>· <b>Corrosive to metals</b> Void</li> <li>· <b>Desensitised explosives</b> Void</li> </ul>

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No specific test data related to reactivity available for this product or its ingredients.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
In confined or poorly ventilated spaces solvent may form an explosive mixture with air.
- **10.3 Possibility of hazardous reactions**  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**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	10,760 mg/kg (rat) (OECD 423)
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**(EU) 2021/848**

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Dermal	LD50	> 14,112 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	23.4 mg/l (rat) (OECD 403)
<b>78-93-3 butanone</b>		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
<b>13939-25-8 Aluminium dihydrogen phosphate</b>		
Oral	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4 h	3,460 mg/l (rat)
<b>128601-23-0 Hydrocarbons, C9, aromatics (&lt; 0.1% benzene)</b>		
Oral	LD50	3,492 mg/kg (rat)
Dermal	LD50	3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6,193 mg/l (rat)
<b>220926-97-6 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine</b>		
Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4 h	3.56 mg/l (rat)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	6,190 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
<b>77-99-6 propylidynetrimethanol</b>		
Oral	LD50	14,700 mg/kg (rat)
Dermal	LD50	10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	850 mg/l (rat)
<b>149-57-5 2-ethylhexanoic acid</b>		
Oral	LD50	3,640 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
<b>1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate</b>		
Oral	LD50	3,230 mg/kg (rat)
Dermal	LD50	3,170 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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.
- **Other information (about experimental toxicology):**

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Swallowing may cause nausea, diarrhea, vomiting, gastro-intestinal irritation and chemical pneumonia.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 butanone

List II

**SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

**123-86-4 n-butyl acetate**

72-h EC50	647.7 mg/L (Desmodesmus subspicatus)
48-h EC50	44 mg/L (Daphnia magna)
96-h LC50	18 mg/L (Pimephales promelas) (OECD 203)
NOEC	200 mg/L (Desmodesmus subspicatus)

**78-93-3 butanone**

48-h EC50	308 - 5,091 mg/L (Daphnia magna)
96-h LC50	2.993 - 3.2 mg/L (Fish)
96-h EC50	2,029 mg/L (Algae)

**13939-25-8 Aluminium dihydrogen phosphate**

72-h EC50	100 mg/L (Algae)
48-h EC50	0.245 - 100 mg/L (Daphnia magna)
96-h LC50	0.156 - 250 mg/L (Fish)

**128601-23-0 Hydrocarbons, C9, aromatics (< 0.1% benzene)**

72-h EC50	0.29 - 0.42 mg/L (Algae)
96-h LL50	5.491 - 10 mg/L (Fish)
48-h EL50	3.2 - 9.586 mg/L (Daphnia magna)

**220926-97-6 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine**

72-h EC50	> 100 mg/L (Pseudokirchneriella subcapitata) (OECD 201)
48-h EC50	> 100 mg/L (Daphnia magna) (OECD 202)
96-h LC50	> 100 mg/L (Oncorhynchus mykiss) (OECD 203)

**108-65-6 2-methoxy-1-methylethyl acetate**

48-h EC50	500 mg/L (Daphnia magna)
96-h LC50	100 - 180 mg/L (Fish)
96-h EC50	1,000 mg/L (Algae)

**77-99-6 propylidynetrimethanol**

72-h EC50	1 mg/L (Algae)
48-h EC50	13 mg/L (Daphnia magna)
96-h LC50	1 - 10 mg/L (Fish)

**149-57-5 2-ethylhexanoic acid**

72-h EC50	485.1 mg/L (Algae)
48-h EC50	913 mg/L (Daphnia magna)
96-h LC50	100 mg/L (Fish)

**1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate**

72-h EC50	0.42 - 1.68 mg/L (Algae)
96-h LC50	0.96 mg/L (Fish)

· 12.2 Persistence and degradability

Biodegradability:

n-butyl acetate: 90 %, 28 d -> readily

butanone: readily

2-methoxy-1-methylethyl acetate: readily

(Contd. on page 10)

Trade name: NormaFINE 80 Comp. A

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- 2-ethylhexanoic acid: readily
- **12.3 Bioaccumulative potential** 2-ethylhexanoic acid: LogPow = 2,7 @ 25 °C
- **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** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**


- **13.1 Waste treatment methods**
- **Recommendation**  
 Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:**  
 Empty, dry paint containers (hole made to the bottom) should be taken to collection centres for metallic paint packages. If this collecting/recycling centre doesn't exist, containers can be taken to a local dump pit. For more information contact your local waste disposal authorities or paint deliverer.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1263
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** PAINT
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **14.4 Packing group**
- **ADR, IMDG, IATA** III
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Warning: Flammable liquids.
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E,S-E
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 5L
- **Transport category** 3
- **Tunnel restriction code** D/E
- **IMDG**
- **Limited quantities (LQ)** 5L

(Contd. on page 11)

Trade name: NormaFINE 80 Comp. A

(Contd. of page 10)

· UN "Model Regulation": UN 1263 PAINT, 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

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

78-93-3	butanone	3
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· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

78-93-3	butanone	3
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· **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.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H361f Suspected of damaging fertility.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· **Contact:** Nor-Maali Oy, tel. +358 3 874 650 or sds@nor-maali.fi

· **Date of previous version:** 09.12.2020

· **Version number of previous version:** 3

· **Abbreviations and acronyms:**

- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

(Contd. on page 12)

**Safety data sheet**  
**(EC) 1907/2006 (REACH), Annex II, as amended by Regulation**  
**(EU) 2021/848**

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Date of revision: 24.08.2022  
Date of previous issue: 09.12.2020  
Version number 4 (replaces version 3)

**Trade name: NormaFINE 80 Comp. A**

Skin Sens. 1A: Skin sensitisation – Category 1A  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1  
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  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4  
· **\* Data compared to the previous version altered.**

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