




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



- **1.1 Product identifier**
- **Trade name: Normaspeed 100 White**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
 - Coating
 - Acrylic paint
- **Application of the substance / the preparation**
 - 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
 - sds@nor-maali.fi tai myynti@nor-maali.fi
 - Y-tunnus: 0148460-9
- **Further information obtainable from: MSDS (Nor-Maali Oy) tel.+358 3 874 650**
- **1.4 Emergency telephone number: Contact National Poison Center**

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  Xn; Harmful
R20/21: Harmful by inhalation and in contact with skin.
 -  Xi; Irritant
R38: Irritating to skin.
 -  N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R10: Flammable.
- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
 -   Xn Harmful
N Dangerous for the environment
- **Hazard-determining components of labelling:**

xylene

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 1)

- **Risk phrases:**
 - 10 Flammable.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 38 Irritating to skin.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
 - 23 Do not breathe spray.
 - 25 Avoid contact with eyes.
 - 36/37 Wear suitable protective clothing and gloves.
 - 51 Use only in well-ventilated areas.
 - 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **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 characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-34-xxxx	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-50%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40-XXXX	trizinc bis(orthophosphate) N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn R20; F R11 Flam. Liq. 2, H225; Acute Tox. 4, H332	2.5-10%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-1%

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
 - 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.

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 2)

- **After swallowing:**
If swallowed, seek medical advice immediately and show the container or label.
Keep person warm and at rest. Do not induce vomiting.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor:** Treatment according to symptoms.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- **Protective equipment:**
Mouth respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist.
Refer to protective measures listed in sections 7 and 8.
- **6.2 Environmental precautions:**
Avoid dispersal of spilled 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 with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 3)

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.

· **Information about fire - and explosion protection:**

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 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

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

· **8.1 Control parameters**

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

1330-20-7 xylene

OEL Short-term value: 440 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Skin

100-41-4 ethylbenzene

OEL Short-term value: 880 mg/m³, 200 ppm

Long-term value: 220 mg/m³, 50 ppm

Skin

· **Ingredients with biological limit values:**

1330-20-7 xylene

BMGV 5.0 mmol/l creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

100-41-4 ethylbenzene

BMGV 5.2 mmol/l creatinine

Medium: urine

Sampling time: post shift

Parameter: mandelic acid

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

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 4)

· 8.2 Exposure controls

· 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 OEL, 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) AP 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).

· Protection of hands:



Protective gloves

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

· Material of gloves Nitrile rubber, NBR

· 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:	Coloured
Odour:	Strong
Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	136 °C

· Flash point: 24 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 430 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: 1.1 Vol %

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 5)

Upper:	7.0 Vol %
· Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	1.4 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

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:**
In confined or poorly ventilated spaces solvent may form an explosive mixture with air.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- **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:**

· **LD/LC50 values relevant for classification:**

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
------	------	-------------------

1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
------	------	--------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** Contains 2-butanoneoxime; may cause an allergic reaction.
- **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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 6)

irritation and reversible damage. Swallowing may cause nausea, diarrhoea, vomiting, gastro-intestinal irritation and chemical pneumonia.

· **Additional toxicological information:**

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

Harmful

Irritant

SECTION 12: Ecological information

· **12.1 Toxicity**

Mixture is classified to dangerous for the environment (harmful to aquatic organisms). Mixture contains following environmentally hazardous substances:

Zincphosphate:

LC50c= 0,14-0,26 mg Zn²⁺/l, 96 h, fish (*Oncorhynchus mykiss*); very toxic

EC50 = 0,04-0,86mg Zn²⁺/l, 48 h, water flea (*Daphnia magna*); very toxic

EC50 = 0,136-0,150 mg Zn²⁺/l, 72 h, alga (*Selenastrum capricornutum*); very toxic

· **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.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **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**

The waste is collected and disposed of in accordance with regulations given by authorities. Liquid waste must be transported to facilities for collecting hazardous waste or to other similar places to be disposed of as hazardous waste. Solvent-free, hardened paint and painting waste can usually be taken to a public dump pit.

· **Waste disposal key:**

08 01 11* waste paint and varnish containing organic solvents or other dangerous

substances. If this product is mixed with other wastes, this code may no longer apply.

If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

· **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**

· **ADR, IMDG, IATA**

UN1263

· **14.2 UN proper shipping name**

· **ADR**

1263 PAINT, ENVIRONMENTALLY HAZARDOUS

(Contd. on page 8)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 7)

· IMDG	PAINT (trizinc bis(orthophosphate), zinc oxide),
· IATA	MARINE POLLUTANT PAINT

· **14.3 Transport hazard class(es)**· **ADR, IMDG**

· Class	3 Flammable liquids.
· Label	3

· **IATA**

· Class	3 Flammable liquids.
· Label	3

· **14.4 Packing group**· **ADR, IMDG, IATA** III

· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: trizinc bis(orthophosphate)
--------------------------------------	---

· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Flammable liquids.· **EMS Number:** F-E,S-E

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
---	-----------------

· **Transport/Additional information:**

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

SECTION 15: Regulatory information

· **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.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H332 Harmful if inhaled.
 H400 Very toxic to aquatic life.

(Contd. on page 9)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.09.2013

Version number 1

Revision: 26.09.2013

Trade name: Normaspeed 100 White

(Contd. of page 8)

H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Contact:** Nor-Maali Oy, puh. 03-874 650, sds@nor-maali.fi tai myynti@nor-maali.fi· *** Data compared to the previous version altered.**

GB