Safety Data Sheet dated 7/2/2024, Edition 2 - version 3
Regulation (EU) n. 2020/878

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

1.1. Product identifier

Identification of the mixture:

Trade name: GIANO

Trade code: 646.001

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

Modified alkyd primer.

User:

Consumer.

Professional.

Uses advised against:

All other uses.

1.3. Details of the supplier of the safety data sheet

Company:

BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax +39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103

Competent person responsible for the safety data sheet:

sicurezzaprodotti@boero.it

1.4. Emergency telephone number

BOERO BARTOLOMEO S.p.A. - Tel.+39 010 55001

opening hours: Monday - Tuesday 9.00 am - 5.00 pm

UK: in an emergency the enquirer should call NHS 111/24/Direct (free-to-call medical helplines) or a doctor.

MALTA: tel. 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 3, H226 Flammable liquid and vapour.

Skin Irrit. 2, H315 Causes skin irritation.

Eye Irrit. 2, H319 Causes serious eye irritation.

STOT SE 3, H335 May cause respiratory irritation.

STOT RE 2, H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Hazard pictograms:

Warning

Hazard statements:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P370+P378 In case of fire use CO2 or chemical powder. Never use water.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container according to local regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.
PACK2 The packing must have tactile indications of danger for blind people.

Contains

xylene [4]
hydrocarbons, C9, aromatics

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 15% - < 20% titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic

diameter <= 10 µm]
REACH No.: 01-2119489379-17-XXXX, CAS: 13463-67-7, EC: 236-675-5
Substance with a Union workplace exposure limit.

>= 15% - < 20% xylene [4]
REACH No.: 01-2119488216-32-XXXX, CAS: 1330-20-7, EC: 215-535-7
Flam. Liq. 3 H226 Flammable liquid and vapour.
Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

>= 10% - < 12.5% hydrocarbons, C9, aromatics
REACH No.: 01-2119455851-35-XXXX, EC: 918-668-5
Flam. Liq. 3 H226 Flammable liquid and vapour.
STOT SE 3 H335 May cause respiratory irritation.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
DECLP (CLP)*

>= 7% - < 10% 2-methoxy-1-methylethyl acetate
REACH No.: 01-2119475791-29-XXXX, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
Flam. Liq. 3 H226 Flammable liquid and vapour.
STOT SE 3 H336 May cause drowsiness or dizziness.

>= 7% - < 10% trizinc bis(orthophosphate)
Index number: 030-011-00-6, CAS: 7779-90-0, EC: 231-944-3
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

>= 1% - < 2.5% gamma-glycidoxypropyl-trimethoxy-silane
REACH No.: 01-2119513212-58-XXXX, CAS: 2530-83-8, EC: 219-784-2
Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

>= 0.1% - < 0.25% zinc oxide
REACH No.: 01-2119463881-32-XXXX, Index number: 030-013-00-7, CAS: 1314-13-2, EC: 215-222-5
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

>= 0.01% - < 0.05% dipropyleneglycol methylether
REACH No.: 01-2119450011-60-XXXX, CAS: 34590-94-8, EC: 252-104-2
Substance with a Union workplace exposure limit.

< 0.0015% propan-2-ol; isopropyl alcohol; isopropanol
REACH No.: 01-2119457558-25-XXXX, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

< 0.0015% butanone; ethyl methyl ketone
REACH No.: 01-2119457290-43-XXXX, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:
Do NOT induce vomiting.
Give nothing to eat or drink.

In case of Inhalation:
If breathing is irregular or stopped, administer artificial respiration.

Protective measures for first responders
Please refer to section 8.2 of this safety data sheet for the PPE required for first responder interventions.

4.2. Most important symptoms and effects, both acute and delayed
Causes skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire use CO2 or chemical powder. Never use water.

Extinguishing media which must not be used for safety reasons:

Do not use water jets

None in particular.

5.2. Special hazards arising from the substance or mixture

Avoid inhaling the fumes.

5.3. Advice for firefighters

EQUIPMENT

Normal fire-fighting apparel, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant coveralls (EN469), flame-resistant gloves (EN 659) and firefighter boots (HO A29 or A30).

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Do not undertake any action that entails personal risk or without adequate training. Evacuate the surrounding areas. Do not touch or walk on spilled material. Wear suitable protective equipment (including the personal protective equipment under section 8.2 of this safety data sheet) to prevent contamination of skin, eyes and personal clothing. Wear a suitable breathing apparatus when ventilation is inadequate.

Do not inhale mist/vapours. Avoid dispersion of the product in the environment. Follow any relevant internal procedures for personnel not authorised to intervene directly in the case of accidental spillages.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

See protective measures under point 7 and 8.

For emergency responders:

Block the leak if not hazardous. Evacuate unauthorised personnel. Wear suitable protective equipment (consult section 8.2 of this safety data sheet). Follow the relevant internal procedures for authorised personnel. Isolate the hazardous area and prevent entry. Ventilate closed spaces before entering.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Adequately ventilated premises.
Use localized ventilation system.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep the containers tightly closed.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7

EU - TWA(8h): 10 mg/m3
AGS - TWA(8h): 5 mg/m3
ACGIH - TWA(8h): 0.2 mg/m3 - Notes: Nanoscale particles; (R); A3 - LRT irr, pneumoconiosis
MAK - STEL: 3 mg/m3
ACGIH - TWA(8h): 2.5 mg/m3 - Notes: Finescale particles; (R); A3 - LRT irr, pneumoconiosis
HR - TWA(8h): 4 mg/m3 - Notes: (R respirabilna prašina)
HR - TWA(8h): 10 mg/m3 - Notes: (U ukupna prašina)
B TLV-TWA (8 hours) - TWA(8h): 10 mg/m3
DK TLV-TWA (8 hours) - TWA(8h): 6 mg/m3 - Notes: total dust
DK TLV-STEL (shterm) - STEL: 12 mg/m3 - Notes: total dust
FI TLV-TWA (8 hours) - TWA(8h): 11 mg/m3 - Notes: inhalable aerosol
DE TLV-TWA (8 hours) - TWA(8h): 0.3 mg/m3 - Notes: Respirable fraction, except ultrafine particles. Multiplied by the material density.
DE TLV-STEL - STEL: 2.4 mg/m3 - Notes: Respirable fraction, except ultrafine particles. Multiplied by the material density. 15 minutes average value.
IR TLV-TWA - TWA(8h): 10 mg/m3 - Notes: Inhalable fraction
LV TLV-TWA (8 hours) - TWA(8h): 10 mg/m3
NO TLV-TWA (8 hours) - TWA(8h): 5 mg/m3
PL TLV-TWA (8 hours) - TWA(8h): 10 mg/m3 - Notes: Inhalable fraction
RO TLV-TWA (8 hours) - TWA(8h): 10 mg/m3
RO TLV-STEL (shterm) - STEL: 15 mg/m3 - Notes: 15 minutes average value
ES TLV-TWA (8 hours) - TWA(8h): 10 mg/m3 - Notes: Inhalable fraction

MAK - TWA: 5 mg/m3 - Notes: inhalable aerosol
CH TLV-TWA (8 hours) - TWA(8h): 3 mg/m3 - Notes: respirable aerosol
GB TLV-TWA - TWA(8h): 10 mg/m3 - Notes: inhalable aerosol
GB TLV-TWA - TWA(8h): 4 mg/m3 - Notes: respirable aerosol

xylene [4] - CAS: 1330-20-7
EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: skin
AGS - TWA(8h): 221 mg/m3 - STEL((15 min)): 442 mg/m3 - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)
ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair
AGS - TWA(8h): 221 mg/m3 - STEL((15 min)): 442 mg/m3 - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)
VLE1 - TWA(8h): 211 mg/m3, 50 ppm
VLE - STEL: 442 mg/m3, 100 ppm - Notes: Skin

hydrocarbons, C9, aromatics
EU - STEL: 100 mg/m3, 20 ppm
AGS - TWA(8h): 250-350 mg/m3

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
EU - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Notes: Skin
HR - TWA(8h): 275 mg/m3, 50 ppm
HRKGVI - STEL: 550 mg/m3, 100 ppm

zinc oxide - CAS: 1314-13-2
ACGIH - TWA(8h): 2 mg/m3 - STEL: 10 mg/m3 - Notes: (R) - Metal fume fever
VLE1 - TWA: 5 mg/m3
VLE - STEL: 10 mg/m3
HR - TWA: 2 mg/m3 - Notes: R-respirabilna prašina
HRKGVI - STEL: 10 mg/m3
B TLV-TWA (8 hours) - TWA(8h): 2 mg/m3
B TLV-STEL (sh term) - STEL: 10 mg/m3 - Notes: Respirable fraction. 15 minutes average value.
FI TLV-TWA (8 hours) - TWA(8h): 2 mg/m3
FI TLV-STEL (shterm) - STEL: 10 mg/m3 - Notes: 15 minutes average value.
HU TLV-TWA (8 hours) - TWA(8h): 5 mg/m3
LV TLV-TWA (8 hours) - TWA(8h): 0.5 mg/m3
NO TLV-TWA (8 hours) - TWA(8h): 5 mg/m3
PL TLV-TWA (8 hours) - TWA(8h): 5 mg/m3 - Notes: 15 minutes average value.
PL TLV-STEL (shterm) - STEL: 10 mg/m3 - Notes: Respirable fraction . 15 minutes average value.

dipropyleneglycol methylether - CAS: 34590-94-8
EU - TWA(8h): 308 mg/m3, 50 ppm - Notes: Skin
ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff
HR - TWA(8h): 308 mg/m3, 50 ppm

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair
VLE1 - TWA: 999 mg/m3, 400 ppm
VLE - STEL: 1250 mg/m3, 500 ppm

butanone; ethyl methyl ketone - CAS: 78-93-3
EU - TWA(8h): 600 mg/m3, 200 ppm - STEL: 900 mg/m3, 300 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair
VLE1 - TWA(8h): 600 mg/m3, 200 ppm
VLE - STEL: 900 mg/m3, 300 ppm

DNEL Exposure Limit Values

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7

Worker Industry: 10 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene [4] - CAS: 1330-20-7

Worker Industry: 289 mg/m3 - Consumer: 174 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 289 mg/m3 - Consumer: 174 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 77 mg/m3 - Consumer: 14.8 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

hydrocarbons, C9, aromatics

Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 150 mg/m3 - Consumer: 32 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 153.5 mg/kg - Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 275 mg/kg - Worker Professional: 275 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

trizinc bis(orthophosphate) - CAS: 7779-90-0

Worker Industry: 5 mg/m3 - Consumer: 2.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 83 mg/kg - Consumer: 83 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.83 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7

Target: Marine water - Value: 1 mg/L
Target: Fresh Water - Value: 0.127 mg/L
Target: Microorganisms in sewage treatments - Value: 100 mg/L
Target: Marine water sediments - Value: 100 mg/kg
Target: Freshwater sediments - Value: 1000 mg/kg

xylene [4] - CAS: 1330-20-7
Target: Fresh Water - Value: 0.327 mg/L
Target: Marine water - Value: 0.327 mg/L
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water sediments - Value: 12.46 mg/kg
Target: Microorganisms in sewage treatments - Value: 6.58 mg/L
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Target: Fresh Water - Value: 0.635 mg/L
Target: Marine water - Value: 0.0635 mg/L
Target: Microorganisms in sewage treatments - Value: 100 mg/L
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
trizinc bis(orthophosphate) - CAS: 7779-90-0
Target: Fresh Water - Value: 0.0206 mg Zn/L
Target: Marine water - Value: 0.0061 mg Zn/L
Target: Freshwater sediments - Value: 117.8 mg Zn/Kg
Target: Marine water sediments - Value: 56.5 mg Zn/Kg
Target: Soil (agricultural) - Value: 35.6 mg Zn/Kg

Biological Exposure Index
xylene [4] - CAS: 1330-20-7
Value: 1.50 mg/L - medium: Blood - Sampling Period: End of turn
Value: 1.50 gg creatinina - medium: Blood - Sampling Period: End of turn
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Value: 50 mg/L - medium: Blood - Biological Indicator: Acetone in blood - Sampling Period: End of turn
butanone; ethyl methyl ketone - CAS: 78-93-3
Value: 2.6 mgg creatinina - medium: Urine - Biological Indicator: MEK in urine - Sampling Period: End of turn

8.2. Exposure controls

Appropriate engineering controls:

Given that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective on-site extraction ventilation.

Personal protective equipment must bear CE marking certifying conformity with the standards in force.

Provide an emergency shower with an eyewash station.

Exposure levels should be kept as low as possible to avoid significant accumulation in the body. Manage personal protective equipment in order to ensure maximum protection (e.g. reducing replacement times).

Eye protection:

Use goggles/facemask certified UNI EN 166.

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc., according to UNI EN 14325.

Protection for hands:

Use protective gloves: waterproof rubber gloves certified UNI EN 374. Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

Respiratory protection:

Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN 149 or dust masks certified UNI EN 140. Filters of types A and P types may be considered.
Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

None

Environmental exposure controls:

See sections 6 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	**Value**	**Method:**	**Notes**
Physical state:	Liquid	--	--
Colour:	white	--	--
Odour:	solvent-like	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	26 °C	--	--
Auto-ignition temperature:	26 °C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	> 20,5 mm2/ sec (40 °C)	--	--
Viscosity (23°C+-0.5°C)	min 2000- max 4000	SPECIFIC WEIGHT BY MEANS OF PICNOMETER (gr / cm3).	--
Spindle:	6	--	--
Speed (rpm):	10	--	--
Solubility in water:	insoluble	--	--

Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.4111	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction to report under normal conditions of use and storage (refer to section 7.2)

10.2. Chemical stability

The product is stable under normal conditions of use and storage (refer to section 7.2).

10.3. Possibility of hazardous reactions

None under normal conditions of use and storage (refer to section 7.2). Always keep containers tightly sealed.

10.4. Conditions to avoid

Keep away from naked flames, sparks and heat sources. Avoid exposure to direct sunlight.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

Gases and vapours potentially harmful to health may be released through thermal decomposition or in the event of fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

GIANO

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
h) STOT-single exposure
The product is classified: STOT SE 3 H335
i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:
titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 10.000 mg/kg
xylene [4] - CAS: 1330-20-7
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 3523 mg/kg
Test: LD50 - Route: dermal - Species: rabbit > 2000 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 27.571 mg/l - Duration: 4h
b) skin corrosion/irritation:
Test: Skin Irritant Positive
c) serious eye damage/irritation:
Test: Eye Irritant Positive
hydrocarbons, C9, aromatics
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 3492 mg/kg
Test: LD50 - Route: dermal - Species: rat > 3160 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 6193 mg/m3 - Duration: 4h
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 5000 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 10.6 mg/kg
Test: LD50 - Route: dermal - Species: rat > 2000 mg/kg
b) skin corrosion/irritation:
Test: Skin Corrosive - Species: rabbit Negative
trizinc bis(orthophosphate) - CAS: 7779-90-0
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 5000 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 5.7 mg/l
dipropyleneglycol methylether - CAS: 34590-94-8

a) acute toxicity:
Test: LD50 - Route: oral - Species: rat = 8740.0 mg/kg
Test: LD50 - Route: dermal - Species: rabbit = 9510.0 mg/kg
Test: LC50 - Route: inhalation of vapours - Species: rat = 3404.47 mg/l
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat = 5840 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 10000 Ppm - Duration: 18207.6h
Test: LD50 - Route: dermal - Species: rabbit = 16.4 ml/kg
b) skin corrosion/irritation:
Test: Skin Corrosive - Route: dermal - Species: rabbit Negative - Notes: OECD 404
c) serious eye damage/irritation:
Test: Eye Corrosive - Species: rabbit Positive - Notes: OECD 405
butanone; ethyl methyl ketone - CAS: 78-93-3
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 2054 mg/kg
Test: LD50 - Route: dermal - Species: rabbit > 10 ml/kg
c) serious eye damage/irritation:
Test: Eye Irritant - Species: rabbit

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
GIANO
The product is classified: Aquatic Chronic 2 - H411
titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203
Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: OECD 202
xylene [4] - CAS: 1330-20-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 2.6 ml/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 72
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 1.3 mg/l - Notes: 56 d
Endpoint: NOEC - Species: Daphnia = 0.74 mg/l - Notes: 7 d
hydrocarbons, C9, aromatics
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48
Endpoint: NOEC - Species: Algae = 1 mg/l - Duration h: 72
Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72
2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 400 mg/l - Duration h: 48

trizinc bis(orthophosphate) - CAS: 7779-90-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.33-6.0 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 0.30 mg/l - Duration h: 72 - Notes: OECD 201

dipropyleneglycol methylether - CAS: 34590-94-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96
Endpoint: LC50 - Species: Daphnia = 1919 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 969 mg/l - Duration h: 72
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 0.5 mg/l - Duration h: 504

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae = 1800 mg/l - Duration h: 168

butanone; ethyl methyl ketone - CAS: 78-93-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 2029 mg/l - Duration h: 96

12.2. Persistence and degradability
There is no data available on the preparation itself.
xylene [4] - CAS: 1330-20-7
Biodegradability: Readily biodegradable - Notes: solubilita' in acqua=146 mg/l
hydrocarbons, C9, aromatics
Biodegradability: Readily biodegradable - %: 78 - Notes: 28 d
dipropyleneglycol methylether - CAS: 34590-94-8
Biodegradability: Readily biodegradable - Test: Oxygen consumption - %: 96 - Notes: 28 d
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Biodegradability: Readily biodegradable - %: 70 - Notes: 10 d
butanone; ethyl methyl ketone - CAS: 78-93-3
Biodegradability: Readily biodegradable - Test: CO2 production - %: 98 - Notes: 28 d

12.3. Bioaccumulative potential
There is no data available on the preparation itself.
xylene [4] - CAS: 1330-20-7
Test: Kow - Partition coefficient 3.2 - Notes: mg/l
Test: BCF - Bioconcentrantion factor 25.9 - Notes: mg/l
hydrocarbons, C9, aromatics
Test: Kow - Partition coefficient 1.2
dipropyleneglycol methylether - CAS: 34590-94-8
Bioaccumulation: Not bioaccumulative
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Test: Kow - Partition coefficient 0.05 - Notes: mg/l

12.4. Mobility in soil

There is no data available on the preparation itself.
xylene [4] - CAS: 1330-20-7
Test: Koc 2.73 - Notes: mg/l

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force. Directives 91/156/CEE, 91/689/CEE, 94/62/CE.
EWC CODE 080111
Do not empty into drains, ground or waterways. Dispose of product residues and related containers at a collection point for hazardous or special waste or, where appropriate, through an authorized waste disposal company.

SECTION 14: Transport information

14.1. UN number or ID number

ADR-UN Number:	1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

14.2. UN proper shipping name

ADR-Shipping Name:	PAINT
IATA-Shipping Name:	PAINT
IMDG-Shipping Name:	PAINT

14.3. Transport hazard class(es)

ADR-Class:	3
UN no.:	UN 1263
ADR - Hazard identification number:	30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3
Erg-code:	3L

Packagings < 450 L not regulated according to 2.2.3.1.5 ADR.
Packagings < 30 L not regulated according to 2.3.2.5 IMDG.

14.4. Packing group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

14.5. Environmental hazards

ADR-Enviromental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
Most important toxic component:	trizinc bis(orthophosphate)
IMDG-EmS:	F-E, S-E

14.6. Special precautions for user

ADR-Subsidiary hazards:	-
ADR-S.P.:	163 367 650
ADR-Transport category (Tunnel restriction code):	3 (D/E)
ADR-Limited Quantities:	5 L
ADR-Excepted Quantities:	E1
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EU) n. 2020/878

Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values). Directive 1999/13/EC and subsequent amendments (limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations). Regulation (CE) n. 1907/2006 , Regulation (CE) 830/2015 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH). Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labeling and packaging of substances and mixtures - CLP).

International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 30

Restriction 75

Restriction 3 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 40 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 75 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Where applicable, refer to the following regulatory provisions :

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products. Regulation UE No 649/2012 concerning the export and import of dangerous chemicals. Regulation UE n. 528/2012 concerning the making available on the market and use of biocidal products.

Directive 2012/18/EU (Seveso III)

Regulation (EC) No. 648/2004 (detergents).

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation (EC) No 689/2006 concerning the export and import of dangerous chemicals.

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c, E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Hazard class and hazard category	**Code**	**Description**
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	**Classification procedure**
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.

DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.