



# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/16/2023

Reviewed on 02/16/2023

## 1 Identification

### Product identifier

**Trade name:** Colorant ALK 20 White**Application of the substance / the mixture** Dyestuff/Colouring agent

### Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**Fine Paints of Europe Inc.  
274 West Woodstock Road  
Woodstock, VT 05091  
USA

info@finepaints.com

Phone: 800.332.1556

**Emergency telephone number:** Phone: 1.800.332.1556 (Monday-Friday 8:00 a.m. - 5:30 p.m. EDT)

## 2 Hazard(s) identification

### Classification of the substance or mixture

Flammable Liquids 3

H226 Flammable liquid and vapor.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 1  
H372 Causes damage to organs through prolonged or repeated exposure.

### Label elements

#### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



GHS02 GHS07 GHS08

**Signal word** Danger

#### Hazard-determining components of labeling:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Poly(oxy-1,2-ethandiyl), alpha.-[(2Z)-3-carboxy-1-oxo-2-propenyl]-.omega.-hydroxy-, C9-11-alkyl ethers  
propylidynetrimethanol

maleic anhydride

#### Hazard statements

Flammable liquid and vapor.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

#### Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/lighting/equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF exposed or concerned: Get medical advice/attention.  
 Get medical advice/attention if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Information pertaining to particular dangers for man and environment:

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### Classification system:

#### NFPA ratings (scale 0 - 4)



Health = 0  
 Fire = 2  
 Reactivity = 0

#### HMIS-ratings (scale 0 - 4)



HEALTH 1 Health = 1  
 FIRE 2 Fire = 2  
 REACTIVITY 0 Reactivity = 0

#### Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

Dangerous components:		
13463-67-7	titanium dioxide	>50–≤100%
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	>2.5–<10%
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	>2.5–≤10%
709014-50-6	Poly(oxy-1,2-ethandiyl),.alpha.-[(2Z)-3-carboxy-1-oxo-2-propenyl]-.omega.-hydroxy-, C9-11-alkyl ethers	≥1–≤2.5%
77-99-6	propylidynetrimethanol	≥0.1–≤2.5%

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108-31-6	maleic anhydride	≥0.001--<0.1%
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## 4 First-aid measures

### Description of first aid measures

#### General information:

Take affected persons out into the fresh air.

Keep warm, position comfortably and cover well.

Consult doctor if symptoms persist.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After swallowing:

If person is conscious, rinse out mouth.

Do not induce vomiting; immediately call for medical help.

#### Information for doctor:

#### Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

#### Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

#### Advice for firefighters

#### Protective equipment:

Mouth respiratory protective device.

Wear fully protective suit.

#### Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Mount respiratory protective device.

**Environmental precautions:** Do not allow product to reach sewage system or any water course.

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## 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.

## 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.

## Protective Action Criteria for Chemicals

PAC-1:		
13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>
1330-20-7	xylene	130 ppm
108-31-6	maleic anhydride	0.2 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
PAC-2:		
13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
1330-20-7	xylene	920* ppm
108-31-6	maleic anhydride	2 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
PAC-3:		
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
1330-20-7	xylene	2500* ppm
108-31-6	maleic anhydride	20 ppm
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>

## 7 Handling and storage

### Handling:

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

#### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

#### Conditions for safe storage, including any incompatibilities

**Storage:** Observe instructions for use / storage.

**Requirements to be met by storerooms and receptacles:** Protect from heat and direct sunlight.

**Information about storage in one common storage facility:** Store away from oxidizing agents.

#### Further information about storage conditions:

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

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

### Control parameters

#### Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

13463-67-7 titanium dioxide	
PEL	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 0.2* 2.5** mg/m <sup>3</sup> resp. fraction, *nanoscale,**finescale, A3
108-31-6 maleic anhydride	
PEL	Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm
REL	Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm
TLV	Long-term value: 0.01* mg/m <sup>3</sup> DSEN, RSEN;*inh. fraction + vapor, A4

**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

##### Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

##### Protection of hands:



Protective gloves

**As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

##### Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

Form:

Pasty

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<b>Color:</b>	White
<b>Odor:</b>	Product specific
<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	155–194 °C (311–381.2 °F) (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
<b>Flash point:</b>	~38 °C (~100.4 °F)
<b>Flammability (solid, gaseous):</b>	Flammable.
<b>Ignition temperature:</b>	>200 °C (>392 °F) (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure:</b>	Not determined.
<b>Density at 20 °C (68 °F):</b>	1.67–1.77 g/cm <sup>3</sup> (13.936–14.771 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	1,141.3–1,592.43 mPas
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>VOC content:</b>	14.46–<15.64 % 261.2–276.9 g/l / 2.18–2.31 lb/gal
<b>Solids content:</b>	86.8 %
<b>Other information</b>	No further relevant information available.

**10 Stability and reactivity****Reactivity** No further relevant information available.**Chemical stability** The product is stable.**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** Oxidizing substances**Hazardous decomposition products:** No dangerous decomposition products known.

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## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

##### 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

##### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Oral	LD50	>15,000 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	13.1 mg/l (rat)

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,000 mg/l (rat)

##### 77-99-6 propyldynetrimeanol

Oral	LD50	~14,100 mg/kg (rat)
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##### 108-31-6 maleic anhydride

Oral	LD50	400 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)

#### Primary irritant effect:

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** Sensitization possible through skin contact.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

#### Carcinogenic categories

##### IARC (International Agency for Research on Cancer)

Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint.

13463-67-7	titanium dioxide	2B
1330-20-7	xylene	3
14808-60-7	Quartz (SiO <sub>2</sub> )	1

#### NTP (National Toxicology Program)

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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#### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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<b>Reproductive toxicity</b>	
<b>77-99-6 propylidynetrimethanol</b>	
Developmental and reproductive toxicity	(rat) Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments., Suspected of damaging fertility. Suspected of damaging the unborn child.

## 12 Ecological information

### Toxicity

<b>Aquatic toxicity:</b>	
<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>	
EL50	4.6–10 mg/l /72h (Pseudokirchneriella subcapitata) 10–22 mg/l /48h (daphnia)
LL50	10–30 mg/l /96h (Oncorhynchus mykiss)
LOEC	0.203 mg/l /21d (daphnia)
NOEC	0.097 mg/l /21d (daphnia)
NOELR	1 mg/l /72h (Algea)
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>	
EL0	1,000 mg/l /48h (daphnia)
EL50	>1,000 mg/l /72h (Pseudokirchneriella subcapitata) 1,000 mg/l /48h (daphnia)
LL50	>1,000 mg/l /96h (Oncorhynchus mykiss)
NOELR	100 mg/l /72h (Pseudokirchneriella subcapitata)

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 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:** Disposal must be made according to official regulations.

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## 14 Transport information

UN-Number  
 DOT, IMDG, IATA UN1263  
 UN proper shipping name  
 DOT, IATA Paint  
 IMDG PAINT  
 Transport hazard class(es)  
 DOT



Class 3 Flammable liquids  
 Label 3

### IMDG, IATA



Class 3 Flammable liquids  
 Label 3  
 Packing group  
 DOT, IMDG, IATA III  
 Environmental hazards: Not applicable.  
 Special precautions for user Warning: Flammable liquids  
 Hazard identification number (Kemler code): 30  
 EMS Number: F-E,S-E  
 Stowage Category A  
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.  
 Transport/Additional information:

DOT

Quantity limitations On passenger aircraft/rail: 60 L  
 On cargo aircraft only: 220 L

### IMDG

Limited quantities (LQ) 5L  
 Excepted quantities (EQ) Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml  
 UN "Model Regulation": UN 1263 PAINT, 3, III

## 15 Regulatory information

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

No further relevant information available.

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### Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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<b>Section 313 (Specific toxic chemical listings):</b>	
1330-20-7	xylene
108-31-6	maleic anhydride

<b>TSCA (Toxic Substances Control Act):</b>		
13463-67-7	titanium dioxide	ACTIVE
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-446-0
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ACTIVE
77-99-6	propylidynetrimethanol	ACTIVE
108-31-6	maleic anhydride	ACTIVE

<b>Hazardous Air Pollutants</b>	
1330-20-7	xylene
108-31-6	maleic anhydride

**Proposition 65**

<b>Chemicals known to cause cancer:</b>	
14808-60-7	Quartz (SiO <sub>2</sub> )

<b>Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	

<b>Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	

<b>Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	

**Carcinogenic categories**

<b>EPA (Environmental Protection Agency)</b>	
1330-20-7	xylene

<b>TLV (Threshold Limit Value)</b>		
13463-67-7	titanium dioxide	A4
1330-20-7	xylene	A4
108-31-6	maleic anhydride	A4
14808-60-7	Quartz (SiO <sub>2</sub> )	A2

<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO <sub>2</sub> )

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

## 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.

**Date of preparation / last revision** 02/16/2023

**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

DOT: US Department of Transportation

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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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids – Category 3

Sensitization - Skin 1: Skin sensitisation – Category 1

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1