

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Mixture
Trade name	: Imperial® Paint Marker White, Black
Other means of identification	: #9660 White, #9682 Black

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Paint Marking.
Recommended use	: Paint
Restrictions on use	: No additional information available

#### 1.3. Supplier

Imperial Supplies, LLC  
P.O. Box 11008  
Green Bay, WI 543007-1008  
USA  
T General Assistance: 800-558-2808

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Hazardous to the aquatic environment – Chronic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects
Full text of H statements : see section 16		

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: H315 - Causes skin irritation

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS US)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective gloves, protective clothing.

P302+P352 - If on skin: Wash with plenty of water.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see First aid measures on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
1-butoxypropan-2-ol	CAS-No.: 5131-66-8	30 - 40	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Titanium dioxide	CAS-No.: 13463-67-7	0 - 25	Carc. 2, H351
Carbon black	CAS-No.: 1333-86-4	0 - 6	Carc. 2, H351
N-ethyltoluene-2-sulphonamide	CAS-No.: 1077-56-1	1 - 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-ethyltoluene-4-sulphonamide	CAS-No.: 80-39-7	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Aluminum hydroxide	CAS-No.: 21645-51-2	0 - 1.1	Aquatic Acute 3, H402 Aquatic Chronic 3, H412
4-tert-butylphenol	CAS-No.: 98-54-4	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 1, H410

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

Comments

: The remaining components are not hazardous and/or present at amounts below reportable limits

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### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: If eye irritation persists: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Suspected of damaging fertility or the unborn child.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction. Irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

#### 4.3. Immediate medical attention and special treatment, if necessary

All treatments should be based on observed signs and symptoms of distress in the patient. Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible. Combustion generates: Carbon oxides (CO, CO <sub>2</sub> ). Nitrogen oxides. Sulfur oxides. Metallic oxides.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes. Avoid creating or spreading dust. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
<b>6.1.1. For non-emergency personnel</b>	
Protective equipment	: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.
<b>6.1.2. For emergency responders</b>	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Chemical goggles or safety glasses. Wear suitable protective clothing and gloves. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Contain and collect as any solid.
Methods for cleaning up	: Mechanically recover the product. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Keep away from ignition sources. Keep container closed when not in use. Protect from sunlight. Store locked up.
Incompatible products	: Strong oxidizers. Acids.
Packaging materials	: Store always product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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Aluminum hydroxide (21645-51-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m <sup>3</sup>
Titanium dioxide (13463-67-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Titanium dioxide
ACGIH OEL TWA	0.2 mg/m <sup>3</sup> (Nanoscale particles. R - Respirable particulate matter) 2.5 mg/m <sup>3</sup> (Finescale particles. R - Respirable particulate matter)
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Titanium dioxide (Total dust)
OSHA PEL TWA	15 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Carbon black (1333-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Carbon black
ACGIH OEL TWA	3 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon black
OSHA PEL TWA	3.5 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	3.5 mg/m <sup>3</sup>
NIOSH REL STEL	0.1 mg/m <sup>3</sup>

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required. Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves. Use rubber gloves.

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### Eye protection:

Chemical goggles or safety glasses. Safety glasses

### Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing

### Respiratory protection:

Use air-purifying respirator equipped with particulate filtering cartridges. [In case of inadequate ventilation] wear respiratory protection.

### Personal protective equipment symbol(s):



### Other information:

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Color	: Variable
Odor	: Solvent
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: 62 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

VOC content	: 48.87 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat. Direct sunlight.

### 10.5. Incompatible materials

Strong acids. Strong oxidizers.

### 10.6. Hazardous decomposition products

None under normal use.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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##### 1-butoxypropan-2-ol (5131-66-8)

LD50 oral rat	> 2000 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat [ppm]	> 651 ppm/4h

##### Aluminum hydroxide (21645-51-2)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol), 14 day(s))

##### Titanium dioxide (13463-67-7)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 6.82 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 6.82 mg/l Source: ECHA

##### 4-tert-butylphenol (98-54-4)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 16 g/kg
LC50 Inhalation - Rat	5.6 mg/l/4h
ATE US (vapors)	5.6 mg/l/4h
ATE US (dust, mist)	5.6 mg/l/4h

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Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 4.6 mg/m <sup>3</sup> 4 h
Skin corrosion/irritation	: Causes skin irritation.
1-butoxypropan-2-ol (5131-66-8)	
pH	No data available in the literature
Aluminum hydroxide (21645-51-2)	
pH	8 – 9 Source: GESTIS
Titanium dioxide (13463-67-7)	
pH	7 Source: ECHA
Serious eye damage/irritation	: Causes serious eye irritation.
1-butoxypropan-2-ol (5131-66-8)	
pH	No data available in the literature
Aluminum hydroxide (21645-51-2)	
pH	8 – 9 Source: GESTIS
Titanium dioxide (13463-67-7)	
pH	7 Source: ECHA
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Titanium dioxide (13463-67-7)	
NOAEL (chronic,oral,animal/male,2 years)	5 mg/kg body weight rat
IARC group	2B - Possibly carcinogenic to humans
Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Aluminum hydroxide (21645-51-2)	
NOAEL (animal/male, F0/P)	1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	: Not classified
4-tert-butylphenol (98-54-4)	
STOT-single exposure	May cause respiratory irritation.
N-ethyltoluene-4-sulphonamide (80-39-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified

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<b>1-butoxypropan-2-ol (5131-66-8)</b>	
LOAEL (oral, rat, 90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	350 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	880 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

<b>Aluminum hydroxide (21645-51-2)</b>	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (subchronic, oral, animal/male, 90 days)	1034 mg/kg body weight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	1087 mg/kg body weight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)

<b>Carbon black (1333-86-4)</b>	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male

Aspiration hazard : Not classified  
Viscosity, kinematic : Not applicable

<b>1-butoxypropan-2-ol (5131-66-8)</b>	
Viscosity, kinematic	3.85 mm <sup>2</sup> /s (20 °C, DIN 51562: Capillary viscometer)

<b>Aluminum hydroxide (21645-51-2)</b>	
Viscosity, kinematic	Not applicable (solid)

<b>Titanium dioxide (13463-67-7)</b>	
Viscosity, kinematic	Not applicable (solid)

Likely routes of exposure : Skin and eye contact.  
Symptoms/effects : Suspected of damaging fertility or the unborn child.  
Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.  
  
Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Irritation.  
Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.  
Symptoms/effects after ingestion : None under normal conditions.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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<b>1-butoxypropan-2-ol (5131-66-8)</b>	
LC50 - Fish [1]	560 – 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Poecilia reticulata, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 96h - Algae [1]	> 1000 mg/l (Equivalent or similar to OECD 201, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
<b>Aluminum hydroxide (21645-51-2)</b>	
LC50 - Fish [1]	> 50 mg/l Source: ECHA
<b>Titanium dioxide (13463-67-7)</b>	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water)
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>4-tert-butylphenol (98-54-4)</b>	
LC50 - Fish [1]	> 1 mg/l 96 h
EC50 - Crustacea [1]	> 4.8 mg/l 48 h
<b>Carbon black (1333-86-4)</b>	
LC50 - Fish [1]	> 1000 mg/l Source: NITE
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 10000 mg/l Test organisms (species):
ErC50 algae	> 10000 mg/l Source: EHCA
<b>N-ethyltoluene-2-sulphonamide (1077-56-1)</b>	
LC50 - Fish [1]	32.242 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	0.475 mg/l Source: Ecological Structure Activity Relationships
<b>N-ethyltoluene-4-sulphonamide (80-39-7)</b>	
LC50 - Fish [1]	195.722 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	128.971 mg/l Source: Ecological Structure Activity Relationships
<b>12.2. Persistence and degradability</b>	
<b>Imperial® Paint Marker White, Black</b>	
Persistence and degradability	Not established.
<b>1-butoxypropan-2-ol (5131-66-8)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Aluminum hydroxide (21645-51-2)</b>	
Persistence and degradability	Biodegradability: not applicable.

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<b>Aluminum hydroxide (21645-51-2)</b>	
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>Titanium dioxide (13463-67-7)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>4-tert-butylphenol (98-54-4)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	60 % 28 d
<b>Carbon black (1333-86-4)</b>	
Persistence and degradability	Not readily biodegradable.
<b>N-ethyltoluene-2-sulphonamide (1077-56-1)</b>	
Persistence and degradability	Not rapidly degradable
<b>N-ethyltoluene-4-sulphonamide (80-39-7)</b>	
Persistence and degradability	Not rapidly degradable
<b>12.3. Bioaccumulative potential</b>	
<b>Imperial® Paint Marker White, Black</b>	
Bioaccumulative potential	Not established.
<b>1-butoxypropan-2-ol (5131-66-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Aluminum hydroxide (21645-51-2)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>Titanium dioxide (13463-67-7)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>4-tert-butylphenol (98-54-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3
<b>N-ethyltoluene-2-sulphonamide (1077-56-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.87 Source: Ecological Structure Activity Relationships
<b>N-ethyltoluene-4-sulphonamide (80-39-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.87 Source: Ecological Structure Activity Relationships
<b>12.4. Mobility in soil</b>	
<b>Imperial® Paint Marker White, Black</b>	
Ecology - soil	No additional information available.

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1-butoxypropan-2-ol (5131-66-8)	
Mobility in soil	9.228
Surface tension	27.6 mN/m (20 °C, 100 %, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.64 – 0.97 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
Aluminum hydroxide (21645-51-2)	
Ecology - soil	No (test)data on mobility of the substance available.
Titanium dioxide (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
N-ethyltoluene-2-sulphonamide (1077-56-1)	
Mobility in soil	2.099 Source: Quantitative Structure Activity Relation
N-ethyltoluene-4-sulphonamide (80-39-7)	
Mobility in soil	662.7 Source: Quantitative Structure Activity Relation

### 12.5. Other adverse effects

Other information : No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not dispose of waste into sewer. Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. Proper Shipping Name</b>			
Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.3. Transport hazard class(es)</b>			
Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.4. Packing group</b>			
Not regulated.	Not regulated.	Not regulated.	Not regulated.

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DOT	TDG	IMDG	IATA
<b>14.5. Environmental hazards</b>			
Not regulated.	Not regulated.	Not regulated.	Not regulated.
No supplementary information available			

## 14.6. Special precautions for user

### DOT

Not regulated.

### TDG

Not regulated.

### IMDG

Not regulated.

### IATA

Not regulated.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### 1-butoxypropan-2-ol (5131-66-8)

Listed on the Canadian DSL (Domestic Substances List)

##### Aluminum hydroxide (21645-51-2)

Listed on the Canadian DSL (Domestic Substances List)

##### Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

##### 4-tert-butylphenol (98-54-4)

Listed on the Canadian DSL (Domestic Substances List)

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### Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

### N-ethyltoluene-2-sulphonamide (1077-56-1)

Listed on the Canadian DSL (Domestic Substances List)

### N-ethyltoluene-4-sulphonamide (80-39-7)

Listed on the Canadian DSL (Domestic Substances List)

## EU-Regulations

### 1-butoxypropan-2-ol (5131-66-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### 4-tert-butylphenol (98-54-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Carbon black (1333-86-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## National regulations

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All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

### 1-butoxypropan-2-ol (5131-66-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on KECL (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

### Aluminum hydroxide (21645-51-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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### 4-tert-butylphenol (98-54-4)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on Taiwan National Chemical Inventory  
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on Taiwan National Chemical Inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### N-ethyltoluene-2-sulphonamide (1077-56-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

#### Imperial® Paint Marker White, Black

State or local regulations	The Carbon black in this product is bound and is not respirable. The titanium dioxide in this product is bound and is not respirable. California Prop. 65 warnings are not required.
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#### **WARNING:**

This product can expose you to chemicals including Bisphenol A (BPA), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Name	Cas No. (Report)	Carc.	Dev.	Repro. (Female)	Repro. (Male)	NSRL	MADL
Bisphenol A (BPA)	80-05-7	X	X	X	X		3 µg/day (dermal exposure from solid materials)
Carbon black (airborne, unbound particles of respirable size)	1333-86-4	X					
Diethanolamine	111-42-2	X					
Titanium dioxide	13463-67-7	X					

### SECTION 16: Other information

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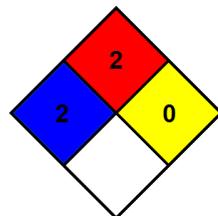
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <a href="http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database">http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</a> . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <a href="http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html">http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html</a> .
Other information	: None.

<b>Full text of hazard classes and H-statements</b>	
H227	Combustible liquid
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

<b>Abbreviations and acronyms</b>	
	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	PBT: Persistent, Bioaccumulative, Toxic
	TSCA: Toxic Substances Control Act

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.