



# SAFETY DATA SHEET

Issuing Date 01-Oct-2014

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Revision Number 0

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name** Textile Marking Texpen/Dalo -All colors  
**Part Number** Black (13030, 23033, 23036), Orange (23103, 23106), Red (23023, 23026), White (13080, 23083, 23086), Yellow (13060, 23063, 23066)  
**Formula Code** J2951 (Black), J3008 (Orange), J3006 (Red), J3038 (White), J3007 (Yellow)  
**Synonyms** Textile and Fabric Texpen/Dalo Markers  
Contains Bisphenol A - Epichlorohydrin polymer

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

**Recommended Use** Solvent based marker  
**Uses advised against** No information available

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

**Importer** (5511) 4785.2600  
**Supplier** ITW PRO BRANDS  
805 E. Old 56 Highway  
Olathe, KS 66061  
TEL: 1-800-443-9536

### For further information, please contact

**E-mail Address** cservice@itwprobrands.com

### 1.4. Emergency telephone number

**Emergency Telephone Number** 800-535-5053 Infotrac

<b>Europe</b>	112
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## Section 2. Hazards identification

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

#### REGULATION (EC) No 1272/2008

Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

#### Physical Hazards

Flammable liquids	Category 2
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#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

**Symbol(s)** Xi - Irritant  
F - Highly flammable  
**R-code(s)** F;R11 - Xi;R36 - R43 - R66 - R67

**2.2. Label Elements**

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**Signal Word**

**Danger**

**Hazard Statements**

- H303 - May be harmful if swallowed
- H313 - May be harmful in contact with skin
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H333 - May be harmful if inhaled
- H336 - May cause drowsiness or dizziness
- H225 - Highly flammable liquid and vapor
- EUH066 - Repeated exposure may cause skin dryness or cracking
- EUH210 - Safety data sheet available on request

**Precautionary Statements - EU (§28, 1272/2008)**

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

**Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/ attention  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention  
 P321 - Specific treatment (see supplemental first aid instructions on this label)  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
 P271 - Use only outdoors or in a well-ventilated area  
 P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell  
 P330 - Rinse mouth  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P363 - Wash contaminated clothing before reuse  
 P501 - Dispose of contents/ container to an approved waste disposal plant  
 P322 - Specific measures (see supplemental first aid instructions on this label)  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P240 - Ground/Bond container and receiving equipment  
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment  
 P242 - Use only non-sparking tools  
 P243 - Take precautionary measures against static discharge  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 P403 + P235 - Store in a well-ventilated place. Keep cool

**2.3. Other information**

**Section 3. Composition/information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Titanium dioxide	236-675-5	13463-67-7	10-30	-		No data available
Propylene glycol monomethyl ether	203-539-1	107-98-2	10-30	R10 R67	Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
Cyclohexanone	203-631-1	108-94-1	10-30	R10 Xn; R20	Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
Acetone	Present	67-64-1	10-30	F; R11 Xi; R36 R66 R67	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	No data available
Carbon black	215-609-9 435-640-3	1333-86-4	5-10	-		No data available
Silicon dioxide	Present	7631-86-9	1-5	-		No data available
Aluminum hydroxide	244-492-7	21645-51-2	1-5	-		No data available

Bisphenol A - Epichlorohydrin polymer	500-033-5	25068-38-6	1-5	Xi; R36/38 R43 N; R51-53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
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**For the full text of the R-phrases mentioned in this Section, see Section 16**

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## Section 4. First aid measures

### 4.1. Description of first-aid measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Keep eye wide open while rinsing.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Protection of First-aiders</b>	Remove all sources of ignition. Use personal protective equipment.

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

**Most Important Symptoms/Effects** No information available.

### 4.3. Indication of immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam.

**Extinguishing media which must not be used for safety reasons**

No information available.

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

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## Section 6. Accidental release measures

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

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Stop leak if you can do it without risk.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

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

Small spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.

### 6.4. Reference to other sections

See Section 12 for additional information.

## Section 7. Handling and storage

### 7.1. Precautions for Safe Handling

#### **Handling**

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

#### **Hygiene Measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

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

Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible materials. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep container closed when not in use.

### 7.3. Specific end use(s)

#### **Exposure Scenario**

No information available.

#### **Other Guidelines**

No information available.

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### **Exposure Limits**

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Titanium dioxide 13463-67-7		STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>	VME: 10 mg/m <sup>3</sup>	VLA-ED: 10 mg/m <sup>3</sup>	

Propylene glycol monomethyl ether 107-98-2	S* TWA 100 ppm TWA 375 mg/m <sup>3</sup> STEL 150 ppm STEL 568 mg/m <sup>3</sup>	STEL: 150 ppm STEL: 560 mg/m <sup>3</sup> TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> Skin	VME: 50 ppm VME: 188 mg/m <sup>3</sup> VLCT: 100 ppm VLCT: 375 mg/m <sup>3</sup>	S* VLA-EC: 150 ppm VLA-EC: 568 mg/m <sup>3</sup> VLA-ED: 100 ppm VLA-ED: 375 mg/m <sup>3</sup>	MAK: 100 ppm MAK: 370 mg/m <sup>3</sup> Ceiling / Peak: 200 ppm Ceiling / Peak: 740 mg/m <sup>3</sup> TWA: 100 ppm TWA: 370 mg/m <sup>3</sup>
Cyclohexanone 108-94-1	S* TWA 10 ppm TWA 40.8 mg/m <sup>3</sup> STEL 20 ppm STEL 81.6 mg/m <sup>3</sup>	STEL: 20 ppm STEL: 82 mg/m <sup>3</sup> TWA: 10 ppm TWA: 41 mg/m <sup>3</sup> Skin	VME: 10 ppm VME: 40.8 mg/m <sup>3</sup> VLCT: 20 ppm VLCT: 81.6 mg/m <sup>3</sup>	S* VLA-EC: 20 ppm VLA-EC: 82 mg/m <sup>3</sup> VLA-ED: 10 ppm VLA-ED: 41 mg/m <sup>3</sup>	Skin TWA: 20 ppm TWA: 80 mg/m <sup>3</sup>
Acetone 67-64-1	TWA 500 ppm TWA 1210 mg/m <sup>3</sup>	STEL: 1500 ppm STEL: 3620 mg/m <sup>3</sup> TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 2420 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup> Ceiling / Peak: 1000 ppm Ceiling / Peak: 2400 mg/m <sup>3</sup>
Carbon black 1333-86-4		STEL: 7 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup>	VME: 3.5 mg/m <sup>3</sup>	VLA-ED: 3.5 mg/m <sup>3</sup>	
Silicon dioxide 7631-86-9		STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup>			TWA: 4 mg/m <sup>3</sup>
Aluminum hydroxide 21645-51-2		TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>			TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>
<b>Component</b>	<b>Italy</b>	<b>Portugal</b>	<b>The Netherlands</b>	<b>Finland</b>	<b>Denmark</b>
Titanium dioxide 13463-67-7 ( 10-30 )		TWA: 10 mg/m <sup>3</sup>			TWA: 6 mg/m <sup>3</sup>
Propylene glycol monomethyl ether 107-98-2 ( 10-30 )	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 568 mg/m <sup>3</sup> Skin	STEL: 150 ppm TWA: 100 ppm	Skin STEL: 563 mg/m <sup>3</sup> TWA: 375 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 370 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 185 mg/m <sup>3</sup>
Cyclohexanone 108-94-1 ( 10-30 )	TWA: 10 ppm TWA: 40.8 mg/m <sup>3</sup> STEL: 20 ppm STEL: 81.6 mg/m <sup>3</sup> Skin	STEL: 50 ppm TWA: 20 ppm	Skin STEL: 50 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 41 mg/m <sup>3</sup> STEL: 20 ppm STEL: 82 mg/m <sup>3</sup> Skin	TWA: 10 ppm TWA: 40 mg/m <sup>3</sup> Skin
Acetone 67-64-1 ( 10-30 )	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>	STEL: 750 ppm TWA: 500 ppm	STEL: 2420 mg/m <sup>3</sup> TWA: 1210 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup> STEL: 630 ppm STEL: 1500 mg/m <sup>3</sup>	TWA: 250 ppm TWA: 600 mg/m <sup>3</sup>
Carbon black 1333-86-4 ( 5-10 )		TWA: 3.5 mg/m <sup>3</sup>		TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Silicon dioxide 7631-86-9 ( 1-5 )				TWA: 5 mg/m <sup>3</sup>	
Aluminum hydroxide 21645-51-2 ( 1-5 )			TWA: 0.05 mg/m <sup>3</sup>		
<b>Chemical Name</b>	<b>Austria</b>	<b>Switzerland</b>	<b>Poland</b>	<b>Norway</b>	<b>Ireland</b>
Titanium dioxide 13463-67-7	STEL 10 mg/m <sup>3</sup> MAK: 5 mg/m <sup>3</sup>	MAK: 3 mg/m <sup>3</sup>	NDSch: 30 mg/m <sup>3</sup> NDS: 10.0 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Propylene glycol monomethyl ether 107-98-2	Skin STEL 50 ppm STEL 187 mg/m <sup>3</sup> MAK: 50 ppm MAK: 187 mg/m <sup>3</sup> Ceiling 50 ppm Ceiling 187 mg/m <sup>3</sup>	STEL: 200 ppm STEL: 720 mg/m <sup>3</sup> MAK: 100 ppm MAK: 360 mg/m <sup>3</sup>	NDSch: 360 mg/m <sup>3</sup> NDS: 180 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup> Skin STEL: 75 ppm STEL: 225 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 568 mg/m <sup>3</sup>

Cyclohexanone 108-94-1	Skin STEL 20 ppm STEL 80 mg/m <sup>3</sup> MAK: 5 ppm MAK: 20 mg/m <sup>3</sup>	Skin STEL: 50 ppm STEL: 200 mg/m <sup>3</sup> MAK: 25 ppm MAK: 100 mg/m <sup>3</sup>	NDSCh: 80 mg/m <sup>3</sup> NDS: 40 mg/m <sup>3</sup> Skin	TWA: 20 ppm TWA: 80 mg/m <sup>3</sup> Skin STEL: 30 ppm STEL: 120 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 40.8 mg/m <sup>3</sup> STEL: 20 ppm STEL: 81.6 mg/m <sup>3</sup> Skin
Acetone 67-64-1	STEL 2000 ppm STEL 4800 mg/m <sup>3</sup> TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 2400 mg/m <sup>3</sup> TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup>	STEL: 1800 mg/m <sup>3</sup> TWA: 600 mg/m <sup>3</sup>	TWA: 125 ppm TWA: 295 mg/m <sup>3</sup> STEL: 156.25 ppm STEL: 368.75 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1210 mg/m <sup>3</sup>
Carbon black 1333-86-4			NDS: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Silicon dioxide 7631-86-9	TWA: 4 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup>		TWA: 1.5 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup>
Aluminum hydroxide 21645-51-2	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup> TWA: 1.2 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Cyclohexanone 108-94-1				80 mg/L urine end of workweek 1,2-Ciclohexanodiol (with hydrolysis) 1,9,I,S 8 mg/L urine end of shift Ciclohexanol (with hydrolysis) 2,9,I,S	
Acetone 67-64-1			100 mg/L urine end of shift Acetone Background noise on non-exposed subjects, Non-specific (observed after the exposure to other substances)	50 mg/L urine end of shift Acetone 2	80 mg/L urine end of shift Acetone
Component	Italy	Portugal	Netherlands	Finland	Denmark
Cyclohexanone 108-94-1 ( 10-30 )	(ACGIH:) 80 mg/L urine end of shift at end of workweek 1,2-Cyclohexanediol (with hydrolysis) Nonspecific, semi-quantitative (ACGIH:) 8 mg/L urine end of shift Cyclohexanol (with hydrolysis) Nonspecific, semi-quantitative				
Acetone 67-64-1 ( 10-30 )	(ACGIH:) 50 mg/L urine end of shift Acetone Nonspecific				
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Propylene glycol monomethyl ether 107-98-2		20 mg/L urine end of shift 1-Methoxypropanol-2			
Cyclohexanone 108-94-1		100 mg/L urine end of shift, and after several shifts (for long-term exposures) total-1,2-Cyclohexanediol 12 mg/L urine end of shift, and after several shifts (for long-term exposures) total-Cyclohexanol			
Acetone 67-64-1		80 mg/L urine end of shift Acetone N			
Component	Romania	Slovakia	Latvia	Bulgaria	

Acetone 67-64-1 ( 10-30 )	50 mg/L urine end of shift Acetone	80 mg/L urine end of exposure or work shift Acetone		
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**Derived No Effect Level** No information available  
**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.  
**Personal protective equipment**  
**Eye Protection** Safety glasses with side-shields. If splashes are likely to occur, wear: Chemical splash goggles.  
**Skin and Body Protection** Risk of contact: Boots. Apron.  
**Hand Protection** Risk of contact: Chemical resistant gloves  
**Respiratory Protection** No special protective equipment required. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

**Section 9. Physical and chemical properties**

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

**Physical State** Liquid. **Appearance** Thick viscosity, Opaque, Varies.  
**Odor** Mild, Sweet, Pungent.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	55-157.78 °C / 131-316 °F	None known
Flash Point	-0.56 °C / 31 °F	None known
Evaporation rate	> 1 (BuAc = 1)	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	> 1 (air = 1)	None known
Relative Density	> 1 @ 70°F	None known
Water Solubility	Negligible	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Flammable Properties	HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

**9.2. Other information**

**VOC Content (%)** J2951 Black: 50%  
 J3006 Red: 46.9%  
 J3008 Orange: 39.74%  
 J3038 White: 39.74%  
 J3007 Yellow: 43.36%  
**VOC (g/l)** J2951 Black: 488 g/L  
 J3006 Red: 466 g/L  
 J3008 Orange: 461 g/L  
 J3038 White: 465 g/L  
 J3007 Yellow: 485 g/L  
**Flammability Limits in Air** No information available.



## Section 10. Stability and reactivity

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Heat, flames and sparks. Incompatible products.

**10.5. Incompatible materials**

Strong oxidizing agents. Strong reducing agents. Strong alkalis. Strong acids.

**10.6. Hazardous decomposition products**

Carbon oxides. Soot. Smoke

## Section 11. Toxicological information

**11.1.**

**Acute Toxicity**

**Product Information**

**Inhalation**

May be harmful if inhaled. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

**Eye Contact**

Irritating to eyes. Causes serious eye irritation.

**Skin Contact**

May be harmful in contact with skin. May cause irritation.

**Ingestion**

May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg ( Rat )		
Propylene glycol monomethyl ether	= 5200 mg/kg ( Rat )	= 13000 mg/kg ( Rabbit )	> 24 mg/L ( Rat ) 1 h = 54.6 mg/L ( Rat ) 4 h
Cyclohexanone	= 800 mg/kg ( Rat )	= 948 mg/kg ( Rabbit )	= 10.7 mg/L ( Rat ) 4 h = 8000 ppm ( Rat ) 4 h
Acetone	= 5800 mg/kg ( Rat )	1700mg/kg (rabbit)	18892 mg/m <sup>3</sup>
Carbon black	> 15400 mg/kg ( Rat )	> 3 g/kg ( Rabbit )	
Silicon dioxide	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>2.2 mg/L ( Rat ) 4 h
Aluminum hydroxide	> 5000 mg/kg ( Rat )	-	-

**Sensitization**

May cause an allergic skin reaction.

**Mutagenic Effects**

No information available.

**Carcinogenic Effects**

No information available.

**Reproductive Toxicity**

No information available.

**Developmental Toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Target Organ Effects**

Central nervous system (CNS). Eyes. Kidney. Liver. Lungs. Lymphatic system. Respiratory system. Skin.

**Aspiration Hazard**

No information available.

## Section 12. Ecological information

**12.1. Toxicity**

**Ecotoxicity Effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Propylene glycol monomethyl ether		LC50 96 h: 4600-10000 mg/L static (Leuciscus idus) LC50 96 h: = 20.8 g/L static (Pimephales promelas)		EC50 48 h: = 23300 mg/L (Daphnia magna)
Cyclohexanone	EC50 96 h: = 20 mg/L (Chlorella vulgaris)	LC50 96 h: 481-578 mg/L flow-through (Pimephales promelas) LC50 96 h: = 8.9 mg/L (Pimephales promelas)	EC50 = 18.5 mg/L 5 min EC50 = 21.3 mg/L 10 min EC50 = 25 mg/L 5 min	EC50 24 h: = 800 mg/L (Daphnia magna)
Acetone		LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 - 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus)	EC50 = 14500 mg/L 15 min	EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna)
Carbon black				EC50 24 h: > 5600 mg/L (Daphnia magna)
Silicon dioxide	EC50 72 h: = 440 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 5000 mg/L static (Brachydanio rerio)		EC50 48 h: = 7600 mg/L (Ceriodaphnia dubia)

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential.**

Chemical Name	Log Pow
Propylene glycol monomethyl ether	-0.437
Cyclohexanone	0.86
Acetone	-0.24

**12.4. Mobility in soil**

Adsorbs on soil.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

This product does not contain any known or suspected endocrine disruptors.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Bisphenol A - Epichlorohydrin polymer	Group III Chemical		

**Section 13. Disposal considerations**

**13.1. Waste treatment methods**

<b>Waste from Residues / Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other Information</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14. Transport information**

**IMDG/IMO**

<b>14.1. UN-Number</b>	UN1263
<b>14.2. Proper Shipping Name</b>	Paint
<b>14.3. Hazard Class</b>	3
<b>14.4. Packing Group</b>	II
<b>Description</b>	UN1263, Paint, 3, II, (-0.56°C c.c.)
<b>14.5. Marine Pollutant</b>	None.
<b>14.6. Special Provisions</b>	None.
<b>EmS No.</b>	F-E, S-E
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available.

**RID**

<b>14.1. UN-Number</b>	UN1263
<b>14.2. Proper Shipping Name</b>	Paint
<b>14.3. Hazard Class</b>	3
<b>14.4. Packing Group</b>	II
<b>Description</b>	UN1263, Paint, 3, II
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.
<b>Classification Code</b>	F1

**ADR**

<b>14.1. UN-Number</b>	UN1263
<b>14.2. Proper Shipping Name</b>	Paint
<b>14.3. Hazard Class</b>	3
<b>14.4. Packing Group</b>	II
<b>Description</b>	UN1263, Paint, 3, II, (D/E)
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.
<b>Classification Code</b>	F1
<b>Tunnel Restriction Code</b>	(D/E)

**ICAO**

<b>14.1. UN-Number</b>	UN1263
<b>14.2. Proper shipping name</b>	Paint
<b>14.3. Hazard Class</b>	3
<b>14.4. Packing Group</b>	II
<b>Description</b>	UN1263, Paint, 3, II
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**IATA**

<b>14.1. UN-Number</b>	UN1263
<b>14.2. Proper Shipping Name</b>	Paint
<b>14.3. Hazard Class</b>	3

14.4. Packing Group	II
Description	UN1263, Paint, 3, II
14.5. Environmental hazard	None.
14.6. Special Provisions	None.
ERG Code	3L

## Section 15. Regulatory information

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

#### International Inventories

TSCA	-
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

### 15.2. Chemical Safety Assessment

No information available

## Section 16. Other information

#### Full text of R-phrases referred to under Sections 2 and 3

R10 - Flammable

R67 - Vapors may cause drowsiness and dizziness

R20 - Harmful by inhalation

R11 - Highly flammable

R66 - Repeated exposure may cause skin dryness or cracking

R36 - Irritating to eyes

R43 - May cause sensitization by skin contact

R36/38 - Irritating to eyes and skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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**Full text of H-Statements referred to under sections 2 and 3**

H226 - Flammable liquid and vapor  
H336 - May cause drowsiness or dizziness  
H332 - Harmful if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H411 - Toxic to aquatic life with long lasting effects  
H225 - Highly flammable liquid and vapor  
H303 - May be harmful if swallowed  
H313 - May be harmful in contact with skin  
H333 - May be harmful if inhaled  
EUH066 - Repeated exposure may cause skin dryness or cracking  
EUH210 - Safety data sheet available on request

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

<b>Issuing Date</b>	01-Oct-2014
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<b>Revision Note</b>	Initial Release.

**This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006**

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**