



SAFETY DATA SHEET

Issuing Date 15-Aug-2014

Revision Date 03-Aug-2016

Revision Number 2

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

1.1. Product identifier

Product Name BRITE-MARK PAINT MARKER

Part Number Black (40003, 41003, 84002, 84202), Blue (40001, 41001, 84001, 84201), Brown (40007, 84010), Gold (84051), Green (40004, 41004, 84007, 84207), Light Blue (84008), Orange (40010, 41010, 84005, 84205), Pink (84009), Red (40002, 41002, 84006, 84206), Silver (40016, 84050), Violet (84019), White (40008, 41008, 84003, 84203), Yellow (40006, 41006, 84004, 84204)

Formula Code A720M (Black), A788M (Blue), A786M (Brown), A946M (Gold), A789M (Green), A783M (Light Blue), A790M (Orange), A787M (Pink), A791M (Red), A945M (Silver), A785M (Violet), A718M (White), A719M (Yellow)

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
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For further information, please contact

E-mail Address cservice@itwprobrands.com

1.4. Emergency telephone number

Emergency Telephone Number 800-535-5053 Infotrac

Europe	112
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Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

Physical Hazards

Flammable liquids

Category 3

2.2. Label Elements**Signal Word****Danger****Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H350 - May cause cancer

H410 - Very toxic to aquatic life with long lasting effects

May cause respiratory irritation. May cause drowsiness or dizziness

H226 - Flammable liquid and vapor

EUH066 - Repeated exposure may cause skin dryness or cracking

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

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P321 - Specific treatment (see supplemental first aid instructions on this label)
 P332 + P313 - If skin irritation occurs: Get medical advice/ attention
 P362 - Take off contaminated clothing and wash before reuse
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 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
 P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P281 - Use personal protective equipment as required
 P308 + P313 - IF exposed or concerned: Get medical advice/ attention
 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
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
 P405 - Store locked up
 P273 - Avoid release to the environment
 P501 - Dispose of contents/ container to an approved waste disposal plant
 P391 - Collect spillage
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P233 - Keep container tightly closed
 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
 P403 + P235 - Store in a well-ventilated place. Keep cool

2.3. Other information

No information available.

Section 3. Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
n-Butyl acetate	204-658-1	123-86-4	70.104	(EUH066) Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
Titanium dioxide	236-675-5	13463-67-7	60.3511		No data available
Copper	231-159-6	7440-50-8	19.296	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Aluminum	231-072-3	7429-90-5	13.936	Pyr. Sol. 1 (H250) Water-react. 2 (H261) T Flam. Sol. 1 (H228)	No data available
Carbon black	215-609-9 435-640-3	1333-86-4	11.25		No data available
Isopropyl alcohol	200-661-7	67-63-0	6.968	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	No data available
Silicon dioxide	231-545-4	7631-86-9	6.9175		No data available

Zinc	231-175-3	7440-66-6	6.432	Pry. Sol. 1 (H250) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Aluminum hydroxide	244-492-7	21645-51-2	5.4085		No data available
Petroleum naphtha, light aromatic	265-199-0	64742-95-6	1.494	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
1,2,4 Trimethylbenzene	202-436-9	95-63-6	1.494	Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	No data available
Zirconium oxide	215-227-2	1314-23-4	0.6036		No data available

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

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
Eye Contact	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.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Protection of First-aiders	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 (CO₂). Foam.

Extinguishing media which must not be used for safety reasons

Water.

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	Austria	Belgium	Cyprus	Denmark
n-Butyl acetate 123-86-4		STEL: 100 ppm STEL: 480 mg/m ³ TWA: 100 ppm TWA: 480 mg/m ³ Ceiling: 100 ppm Ceiling: 480 mg/m ³	TWA: 150 ppm TWA: 723 mg/m ³ STEL: 200 ppm STEL: 964 mg/m ³		TWA: 150 ppm TWA: 710 mg/m ³

Titanium dioxide 13463-67-7		STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³		TWA: 6 mg/m ³
Copper 7440-50-8		STEL: 4 mg/m ³ STEL: 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³		TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³
Aluminum 7429-90-5		STEL: 20 mg/m ³ TWA: 10 mg/m ³	TWA: 1 mg/m ³		TWA: 5 mg/m ³ TWA: 2 mg/m ³
Carbon black 1333-86-4			TWA: 3.5 mg/m ³		TWA: 3.5 mg/m ³ Carc*
Isopropyl alcohol 67-63-0		STEL: 800 ppm STEL: 2000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³ Carc*	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³		TWA: 200 ppm TWA: 490 mg/m ³
Silicon dioxide 7631-86-9		TWA: 4 mg/m ³			
Aluminum hydroxide 21645-51-2		STEL: 10 mg/m ³ TWA: 5 mg/m ³			
1,2,4 Trimethylbenzene 95-63-6	TWA 20 ppm TWA 100 mg/m ³	STEL: 30 ppm STEL: 150 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³		TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Zirconium oxide 1314-23-4		TWA: 5 mg/m ³			TWA: 5 mg/m ³
Chemical Name	Finland	France	Germany	Gibraltar	Greece
n-Butyl acetate 123-86-4	TWA: 150 ppm TWA: 720 mg/m ³ STEL: 200 ppm STEL: 960 mg/m ³	TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 940 mg/m ³	TWA: 100 ppm TWA: 480 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 960 mg/m ³ TWA: 62 ppm TWA: 300 mg/m ³ Repr*		TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³
Titanium dioxide 13463-67-7		TWA: 10 mg/m ³	Carc*		TWA: 10 mg/m ³ TWA: 5 mg/m ³
Copper 7440-50-8	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 0.01 mg/m ³ Ceiling / Peak: 0.02 mg/m ³ Repr*		TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³
Aluminum 7429-90-5	TWA: 1.5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 4 mg/m ³ TWA: 1.5 mg/m ³ Repr*		TWA: 10 mg/m ³ TWA: 5 mg/m ³
Carbon black 1333-86-4	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3.5 mg/m ³	Carc*		TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
Isopropyl alcohol 67-63-0	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³	STEL: 400 ppm STEL: 980 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ Ceiling / Peak: 400 ppm Ceiling / Peak: 1000 mg/m ³ Repr*		TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Silicon dioxide 7631-86-9	TWA: 5 mg/m ³		TWA: 4 mg/m ³ Repr*		
Zinc 7440-66-6			TWA: 0.1 mg/m ³ TWA: 2 mg/m ³ Ceiling / Peak: 0.4 mg/m ³ Ceiling / Peak: 4 mg/m ³ Repr*		
Aluminum hydroxide 21645-51-2			TWA: 4 mg/m ³ TWA: 1.5 mg/m ³ Repr*		

1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 200 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 25 ppm TWA: 125 mg/m ³
Zirconium oxide 1314-23-4	TWA: 1 mg/m ³				
Chemical Name	Ireland	Italy	Lithuania	Luxembourg	Malta
n-Butyl acetate 123-86-4	TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³	TWA: 150 ppm TWA: 713 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³			
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	TWA: 10 mg/m ³ Carc*	TWA: 5 mg/m ³		
Copper 7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³		
Aluminum 7429-90-5	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ Carc*	TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³		
Carbon black 1333-86-4	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³ Carc*			
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm Skin	TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 983 mg/m ³ Carc*	TWA: 150 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 600 mg/m ³		
Silicon dioxide 7631-86-9	TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³				
Aluminum hydroxide 21645-51-2	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³		TWA: 6 mg/m ³ FS*		
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 60 ppm STEL: 300 mg/m ³ Skin	TWA: 20 ppm TWA: 100 mg/m ³		TWA: 20 ppm TWA: 100 mg/m ³	
Zirconium oxide 1314-23-4	TWA: 5 mg/m ³ STEL: 10 mg/m ³		TWA: 6 mg/m ³ FS*		
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
n-Butyl acetate 123-86-4			TWA: 200 mg/m ³ STEL: 950 mg/m ³	TWA: 150 ppm STEL: 200 ppm	TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 965 mg/m ³
Titanium dioxide 13463-67-7		TWA: 5 mg/m ³ STEL: 5 mg/m ³	TWA: 10.0 mg/m ³ STEL: 30 mg/m ³	TWA: 10 mg/m ³ Carc*	TWA: 10 mg/m ³
Copper 7440-50-8	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ STEL: 0.1 mg/m ³ STEL: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³
Aluminum 7429-90-5		TWA: 5 mg/m ³ STEL: 5 mg/m ³	TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
Carbon black 1333-86-4		TWA: 3.5 mg/m ³ STEL: 3.5 mg/m ³	TWA: 4.0 mg/m ³	TWA: 3.5 mg/m ³ Carc*	TWA: 3.5 mg/m ³
Isopropyl alcohol 67-63-0		TWA: 100 ppm TWA: 245 mg/m ³ STEL: 100 ppm STEL: 245 mg/m ³	TWA: 900 mg/m ³ STEL: 1200 mg/m ³	TWA: 200 ppm STEL: 400 ppm Carc*	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³

Silicon dioxide 7631-86-9		TWA: 1.5 mg/m ³ STEL: 1.5 mg/m ³			
Aluminum hydroxide 21645-51-2			TWA: 2.5 mg/m ³ TWA: 1.2 mg/m ³		
1,2,4 Trimethylbenzene 95-63-6	TWA: 100 mg/m ³ STEL: 200 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 20 ppm STEL: 100 mg/m ³	TWA: 100 mg/m ³ STEL: 170 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Zirconium oxide 1314-23-4		TWA: 5 mg/m ³ STEL: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Chemical Name	Switzerland		Sweden		The United Kingdom
n-Butyl acetate 123-86-4	STEL: 200 ppm STEL: 960 mg/m ³ TWA: 100 ppm TWA: 480 mg/m ³		LLV: 100 ppm LLV: 500 mg/m ³ STV: 150 ppm STV: 700 mg/m ³		TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 966 mg/m ³
Titanium dioxide 13463-67-7	TWA: 3 mg/m ³		LLV: 5 mg/m ³		TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Copper 7440-50-8	STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³		LLV: 1 mg/m ³ LLV: 0.2 mg/m ³		TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³ STEL: 2 mg/m ³
Aluminum 7429-90-5	TWA: 3 mg/m ³		LLV: 5 mg/m ³ LLV: 2 mg/m ³		TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Carbon black 1333-86-4			LLV: 3 mg/m ³		STEL: 7 mg/m ³ TWA: 3.5 mg/m ³
Isopropyl alcohol 67-63-0	STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³		LLV: 150 ppm LLV: 350 mg/m ³ STV: 250 ppm STV: 600 mg/m ³		TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³
Silicon dioxide 7631-86-9	TWA: 4 mg/m ³				STEL: 18 mg/m ³ STEL: 7.2 mg/m ³ TWA: 6 mg/m ³ TWA: 2.4 mg/m ³
Zinc 7440-66-6	STEL: 0.4 mg/m ³ TWA: 0.1 mg/m ³ TWA: 2 mg/m ³				
Aluminum hydroxide 21645-51-2	TWA: 3 mg/m ³				TWA: 10 mg/m ³ TWA: 4 mg/m ³
1,2,4 Trimethylbenzene 95-63-6	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³		LLV: 25 ppm LLV: 120 mg/m ³ STV: 35 ppm STV: 170 mg/m ³		TWA: 25 ppm TWA: 125 mg/m ³
Zirconium oxide 1314-23-4	TWA: 5 mg/m ³				TWA: 5 mg/m ³

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Chemical Name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Aluminum 7429-90-5		60 µg/g Creatinine urine after end of work day, at the end of a work week/ end of the shift Aluminum dust and smoke lung function based on determining, forced vital capacity (FVC), 1 sec - capacitor (FEV1), FEV1%FVC, MEF50, dust and smoke		200 mg/L urine at the end of the shift Aluminum	

Carbon black 1333-86-4		with high ratio of Polycyclic aromatic hydrocarbons			
Isopropyl alcohol 67-63-0				50 mg/L blood at the end of the shift Acetone 50 mg/L urine at the end of the shift Acetone	
Aluminum hydroxide 21645-51-2		60 µg/g Creatinine urine after end of work day, at the end of a work week/ end of the shift Aluminum dust and smoke lung function based on determining, forced vital capacity (FVC), 1 sec - capacitor (FEV1), FEV1%FVC, MEF50, dust and smoke			
Chemical Name	Denmark	Finland	France	Germany	Gibraltar
Isopropyl alcohol 67-63-0				25 mg/L whole blood end of shift Acetone 25 mg/L urine end of shift Acetone	
1,2,4 Trimethylbenzene 95-63-6			600 mg/g creatinine urine end of shift after several shifts Total Dimethylbenzoic acids (after hydrolysis) in urine	400 mg/g urine end of shift Dimethylbenzoic acid sum of all isomers after hydrolysis; measured as mg/g Creatinine 400 mg/g urine end of several shifts Dimethylbenzoic acid sum of all isomers after hydrolysis; measured as mg/g Creatinine; for long-term exposures	
Chemical Name	Hungary	Ireland	Italy	Latvia	Luxembourg
Isopropyl alcohol 67-63-0		40 mg/L urine end of shift at end of workweek Acetone background, nonspecific	(ACGIH:) 40 mg/L urine end of shift at end of workweek Acetone Background, nonspecific		
Chemical Name	Netherlands	Norway	Poland	Portugal	Romania
Aluminum 7429-90-5					200 µg/L urine end of shift Aluminum
Isopropyl alcohol 67-63-0					50 mg/L urine end of shift Acetone
Chemical Name	Slovakia	Spain	Switzerland	United Kingdom	
Aluminum 7429-90-5	200 µg/L urine end of exposure or work shift Aluminum		60 µg/g creatinine urine no restrictions Aluminum		
Isopropyl alcohol 67-63-0		40 mg/L urine end of workweek Acetone 1,F,I	25 mg/L urine end of shift Acetone 25 mg/L whole blood end of shift Acetone		

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	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	Opaque, Varies.
Odor	Sweet		

<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	122.2 °C / 252 °F	None known
Flash Point	27.2 °C / 81 °F	Tag closed cup
Evaporation rate	< 1 (BuAc = 1)	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Water Solubility	Slightly soluble	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	Flammable; may be ignited by heat, sparks or flames.	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

9.2. Other information

VOC Content (%)	A720M Black: 66.61%
	A786M Brown: 67.78%
	A789M Green: 69.77%
	A787M Pink: 48.62%
	A945M Silver: 71.68%
	A718M White: 47.85%
	A788M Blue: 68.83%
	A946M Gold: 59.75%
	A783M Light Blue: 50.34%
	A790M Orange: 65.48%
	A791M Red: 66.17%
	A785M Violet: 76.57%
	A719M Yellow: 68.20%

VOC (g/l)	A720M Black: 672 g/L A786M Brown: 712 g/L A789M Green: 725 g/L A787M Pink: 637 g/L A945M Silver: 714 g/L A718M White: 627 g/L A788M Blue: 694 g/L A946M Gold: 689 g/L A783M Light Blue: 588 g/L A790M Orange: 647 g/L A791M Red: 671 g/L A791M Red: 671 g/L A785M Violet: 771 g/L A719M Yellow: 716 g/L
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Flammability Limits in Air

Upper	7.6
Lower	1.7

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. Information on toxicological effects**Acute Toxicity****Product Information****Inhalation****Eye Contact****Skin Contact****Ingestion**

May cause irritation of respiratory tract. May cause drowsiness and dizziness.

Irritating to eyes. Causes serious eye irritation.

Irritating to skin. Causes skin irritation.

Ingestion may cause nausea and vomiting.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propylene glycol monomethyl ether acetate	= 8532 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	5321 mg/m ³
n-Butyl acetate	= 10768 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	= 391 ppm (Rat) 4 h
Titanium dioxide	> 10000 mg/kg (Rat)		
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	
Isopropyl alcohol	= 4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h
Silicon dioxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>2.2 mg/L (Rat) 4 h
Aluminum hydroxide	> 5000 mg/kg (Rat)	-	-
Petroleum naphtha, light aromatic	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
1,2,4 Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h

Toluene	>5580 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Silica	= 3160 mg/kg (Rat)		
Quartz	-		

Sensitization	No information available.
Mutagenic Effects	May cause genetic defects.
Carcinogenic Effects	The table below indicates whether each agency has listed any ingredient as a carcinogen Contains a known or suspected carcinogen. May cause cancer.
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	Blood. 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

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
n-Butyl acetate	EC50 72 h: = 674.7 mg/L (Desmodesmus subspicatus)	LC50 96 h: 17 - 19 mg/L flow-through (Pimephales promelas) LC50 96 h: = 100 mg/L static (Lepomis macrochirus) LC50 96 h: = 62 mg/L static (Leuciscus idus)	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min	EC50 24 h: = 72.8 mg/L (Daphnia magna)
Copper	EC50 96 h: 0.031 - 0.054 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: 0.0426 - 0.0535 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas) LC50 96 h: < 0.3 mg/L static (Pimephales promelas) LC50 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.112 mg/L flow-through (Poecilia reticulata) LC50 96 h: = 0.2 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.3 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.8 mg/L static (Cyprinus carpio) LC50 96 h: = 1.25 mg/L static (Lepomis macrochirus)	-	EC50 48 h: = 0.03 mg/L Static (Daphnia magna)
Carbon black				EC50 24 h: > 5600 mg/L (Daphnia magna)
Isopropyl alcohol	EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 72 h: > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 11130 mg/L static (Pimephales promelas) LC50 96 h: = 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus)		EC50 48 h: = 13299 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)
Zinc	EC50 72 h: 0.09 - 0.125 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 0.11 - 0.271 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.211-0.269 mg/L semi-static (Pimephales promelas) LC50 96 h: 2.16-3.05 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.24 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.41 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 0.45 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.59 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 2.66 mg/L static (Pimephales promelas) LC50 96 h: = 3.5 mg/L static (Lepomis macrochirus) LC50 96 h: = 30 mg/L (Cyprinus carpio) LC50 96 h: = 7.8 mg/L static (Cyprinus carpio)		EC50 48 h: 0.139 - 0.908 mg/L Static (Daphnia magna)
Petroleum naphtha, light aromatic		LC50 96 h: = 9.22 mg/L (Oncorhynchus mykiss)		EC50 48 h: = 6.14 mg/L (Daphnia magna)
1,2,4 Trimethylbenzene		LC50 96 h: 7.19 - 8.28 mg/L flow-through (Pimephales promelas)		EC50 48 h: = 6.14 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Log Pow
n-Butyl acetate	1.81
Isopropyl alcohol	0.05
1,2,4 Trimethylbenzene	3.63

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.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other Information	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

14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1263, Paint, 3, III, (27.2°C c.c.), Marine Pollutant, Limited Quantity
14.5. Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
Environmental hazard	yes
14.6. Special Provisions	None
EmS No.	F-E, S-E
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.

RID

14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1263, Paint, 3, III, Limited Quantity
14.5. Environmental hazard	yes
14.6. Special Provisions	None
Classification Code	F1

ADR

14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1263, Paint, 3, III, (D/E), Limited Quantity
14.5. Environmental hazard	yes
14.6. Special Provisions	None
Classification Code	F1

ICAO

14.1. UN-Number	UN1263
14.2. Proper shipping name	Paint
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN1263, Paint, 3, III
14.5. Environmental hazard	yes
14.6. Special Provisions	None

IATA

14.1. UN-Number	UN1263
14.2. Proper Shipping Name	Paint
14.3. Hazard Class	3
14.4. Packing Group	III

Description	UN1263, Paint, 3, III
14.5. Environmental hazard	yes
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 H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H340 - May cause genetic defects
H304 - May be fatal if swallowed and enters airways
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H250 - Catches fire spontaneously if exposed to air
H332 - Harmful if inhaled
H411 - Toxic to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking

Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date	15-Aug-2014
Revision Date	03-Aug-2016
Revision Note	(M)SDS sections updated: 16.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

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End of Safety Data Sheet