



SAFETY DATA SHEET

Issuing Date 16-Sep-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 Metal Marking Texpen/Dalo - All colors
Part Number Black (16030, 16033, 26033), Blue (16013, 26013), Green (16043, 26043), Orange (16103, 26103), Red (16020, 16023, 26023), White (16080, 16083, 16084, 16088, 26083, 26084), Yellow (16060, 16063, 16064, 16068, 26063, 26064)
Formula Code J3070 (Black), J2143 (Blue), Y916 (Green), A451M (Orange), J3076 (Red), J1694 (White), A419M (Yellow)
Synonyms Texpen - Fine, Medium and Broad
 Dalo- Medium and Broad

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

Europe	112
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Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Aspiration Toxicity	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Chronic Aquatic Toxicity	Category 2

Physical Hazards

Flammable liquids	Category 3
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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 N - Dangerous for the environment
R-code(s)	R10 - Xi;R37/38 - N;R51/53

2.2. Label Elements



Signal Word

Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H335 - May cause respiratory irritation

H340 - May cause genetic defects

H350 - May cause cancer

H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

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

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

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P273 - Avoid release to the environment

P391 - Collect spillage

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P331 - Do NOT induce vomiting

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

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

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.
Petroleum naphtha, light aromatic	Present	64742-95-6	10-30	Xn; R65	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
1,2,4 Trimethylbenzene	Present	95-63-6	10-30	R10 Xn; R20 Xi; R36/37/38 N; R51-53	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
1,3,5-Trimethylbenzene	203-604-4	108-67-8	1-5	R10 Xi; R37 N; R51-53	Flam. Liq. 3 (H226) STOT SE 3 (H335) Aquatic Chronic 2 (H411)	No data available
Stoddard solvent	Present	8052-41-3	1-5	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
Xylene, mixed isomers	215-535-7	1330-20-7	1-5	R10 Xn; R20/21 Xi; R38	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available
Chlorinated hydrocarbons (chlorinated paraffins)	264-150-0	63449-39-8	1-5	R52-53	Aquatic Chronic 3 (H412)	No data available
Diethylbenzene	246-874-9	25340-17-4	1-5	N;R50/53	Aquatic Chronic 4 (H413)	No data available
Cumene	202-704-5	98-82-8	1-5	R10 Xi; R37 N; R51-53 Xn; R65	Flam. Liq. 3 (H226) STOT SE 3 (H335) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	No data available

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 measures4.1. Description of first-aid measures

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water. 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. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material.

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
1,2,4 Trimethylbenzene 95-63-6	TWA 20 ppm TWA 100 mg/m ³	TWA: 25 ppm TWA: 125 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	TWA: 20 ppm TWA: 100 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 200 mg/m ³
1,3,5-Trimethylbenzene 108-67-8	TWA 20 ppm TWA 100 mg/m ³	TWA: 25 ppm TWA: 125 mg/m ³	VME: 20 ppm VME: 100 mg/m ³ VLCT: 50 ppm VLCT: 250 mg/m ³	VLA-ED: 20 ppm VLA-ED: 100 mg/m ³	MAK: 20 ppm MAK: 100 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 200 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³
Xylene, mixed isomers 1330-20-7	S* TWA 50 ppm TWA 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	STEL: 100 ppm STEL: 441 mg/m ³ TWA: 50 ppm TWA: 220 mg/m ³ Skin	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³	S* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	TWA: 100 ppm TWA: 440 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 880 mg/m ³ Skin
Cumene 98-82-8	S* TWA 20 ppm TWA 100 mg/m ³ STEL 50 ppm STEL 250 mg/m ³	STEL: 50 ppm STEL: 250 mg/m ³ TWA: 25 ppm TWA: 125 mg/m ³ Skin	VME: 20 ppm VME: 100 mg/m ³ VLCT: 50 ppm VLCT: 250 mg/m ³	S* VLA-EC: 50 ppm VLA-EC: 250 mg/m ³ VLA-ED: 20 ppm VLA-ED: 100 mg/m ³	MAK: 50 ppm MAK: 250 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 1000 mg/m ³ Skin TWA: 20 ppm TWA: 100 mg/m ³
Component	Italy	Portugal	The Netherlands	Finland	Denmark
1,2,4 Trimethylbenzene 95-63-6 (10-30)	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	STEL: 200 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³

1,3,5-Trimethylbenzene 108-67-8 (1-5)	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 25 ppm	STEL: 200 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³
Stoddard solvent 8052-41-3 (1-5)		TWA: 100 ppm			TWA: 25 ppm TWA: 145 mg/m ³
Xylene, mixed isomers 1330-20-7 (1-5)	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin	STEL: 150 ppm TWA: 100 ppm	Skin STEL: 442 mg/m ³ TWA: 210 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 440 mg/m ³ Skin	TWA: 25 ppm TWA: 109 mg/m ³ Skin
Cumene 98-82-8 (1-5)	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Skin	TWA: 50 ppm	Skin STEL: 250 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Skin	TWA: 20 ppm TWA: 100 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
1,2,4 Trimethylbenzene 95-63-6	STEL 30 ppm STEL 150 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³	STEL: 170 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 30 ppm STEL: 150 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 60 ppm STEL: 300 mg/m ³ Skin
1,3,5-Trimethylbenzene 108-67-8	STEL 30 ppm STEL 150 mg/m ³ MAK: 20 ppm MAK: 100 mg/m ³	STEL: 40 ppm STEL: 200 mg/m ³ MAK: 20 ppm MAK: 100 mg/m ³	NDSch: 170 mg/m ³ NDS: 100 mg/m ³ Skin	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 30 ppm STEL: 150 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ Skin
Stoddard solvent 8052-41-3			STEL: 900 mg/m ³ TWA: 300 mg/m ³		TWA: 100 ppm TWA: 573 mg/m ³
Xylene, mixed isomers 1330-20-7	Skin STEL 100 ppm STEL 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	Skin STEL: 200 ppm STEL: 870 mg/m ³ TWA: 100 ppm TWA: 435 mg/m ³	TWA: 100 mg/m ³ Skin	TWA: 25 ppm TWA: 108 mg/m ³ Skin STEL: 37.5 ppm STEL: 135 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin
Diethylbenzene 25340-17-4			NDSch: 400 mg/m ³ NDS: 100 mg/m ³ Skin		
Cumene 98-82-8	Skin STEL 20 ppm STEL 250 mg/m ³ MAK: 20 ppm MAK: 100 mg/m ³	Skin STEL: 200 ppm STEL: 980 mg/m ³ MAK: 50 ppm MAK: 245 mg/m ³	NDSch: 250 mg/m ³ NDS: 100 mg/m ³ Skin	TWA: 25 ppm TWA: 125 mg/m ³ Skin STEL: 37.5 ppm STEL: 156.25 mg/m ³	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Skin

Chemical Name	European Union	United Kingdom	France	Spain	Germany
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
1,3,5-Trimethylbenzene 108-67-8			600 mg/g creatinine urine end of shift after several shifts Total Dimethylbenzoic acids (after hydrolysis)		
Xylene, mixed isomers 1330-20-7			1500 mg/g creatinine urine end of shift Methylhippuric acid	1.5 g/g Creatinine urine end of shift Methylhippuric acids 2	1.5 mg/L whole blood end of shift Xylene all isomers 2 g/L urine end of shift Xylene all isomers

Cumene 98-82-8					50 mg/g urine end of shift 2-Phenyl-2-propanol measured as mg/g Creatinine 2 mg/L whole blood end of shift iso-Propylbenzene
Component	Italy	Portugal	Netherlands	Finland	Denmark
Xylene, mixed isomers 1330-20-7 (1-5)	(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acid Technical or commercial grade				
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Xylene, mixed isomers 1330-20-7		1.5 g/g creatinine urine end of shift, and after several shifts (for long-term exposures) Methylhippuric acid 1.5 mg/L whole blood end of shift Xylol			
Cumene 98-82-8		50 mg/g creatinine urine end of shift 2-Phenyl-2-propanol			
Component	Romania	Slovakia	Latvia	Bulgaria	
Xylene, mixed isomers 1330-20-7 (1-5)	3 g/L urine end of shift Methylhippuric acid	1.5 mg/L blood end of exposure or work shift Xylene 2000 mg/L urine end of exposure or work shift Methylhippuric acid			

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 If splashes are likely to occur, wear: Chemical splash goggles.
Skin and Body Protection Risk of contact: Boots. Apron.
Hand Protection If skin contact possible: 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, Thick viscosity, Varies.
Odor Aromatic.

<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	158.89-170 °C / 318-338 °F	None known
Flash Point	42.22 °C / 108 °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	> 1 (air = 1)	None known
Relative Density	> 1 @ 70°F	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 information available	
Oxidizing Properties	No information available	

9.2. Other information

VOC Content (%)	J3070 Black: 30.97% Y916 Green: 30.9% J3076 Red: 35.58% A419M Yellow: 28.73% J2143 Blue: 30.78% A451M Orange: 28.97%
VOC (g/l)	J1694 White: 21.49% J3070 Black: 382 g/L Y916 Green: 375 g/L J3076 Red: 430 g/L A419M Yellow: 351 g/L J2143 Blue: 399 g/L A451M Orange: 352 g/L J1694 White: 321 g/L
Flammability Limits in Air	
Upper	12.3
Lower	1.9

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 cause irritation of respiratory tract.

Eye Contact

Contact with eyes may cause irritation.

Skin Contact

May cause irritation.

Ingestion

May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg (Rat)		
1,2,4 Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	
1,3,5-Trimethylbenzene	= 5000 mg/kg (Rat)		= 24 g/m ³ (Rat) 4 h
Xylene, mixed isomers	= 4300 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	= 5000 ppm (Rat) 4 h = 47635 mg/L (Rat) 4 h
Chlorinated hydrocarbons (chlorinated paraffins)	= 26100 mg/kg (Rat)	> 10 mL/kg (Rabbit)	
Cumene	= 1400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 39000 mg/m ³ (Rat) 4 h

Sensitization

No information available.

Mutagenic Effects

May cause genetic defects.

Carcinogenic Effects

May cause cancer. The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	EU Annex I Carcinogen Information	UK
Petroleum naphtha, light aromatic	Category 2	
Stoddard solvent	Category 2	

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. Lungs. Lymphatic system. Respiratory system. Skin.

Aspiration Hazard

May be fatal if swallowed and enters airways

Section 12. Ecological information

12.1. Toxicity**Ecotoxicity Effects**

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)
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) LC50 96 h: = 7.72 mg/L flow-through (Pimephales promelas)		EC50 48 h: = 6.14 mg/L (Daphnia magna)
1,3,5-Trimethylbenzene		LC50 96 h: = 3.48 mg/L (Pimephales promelas)		EC50 24 h: = 50 mg/L (Daphnia magna)

Xylene, mixed isomers	EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: = 19 mg/L (Lepomis macrochirus) LC50 96 h: 7.711 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: = 780 mg/L semi-static (Cyprinus carpio) LC50 96 h: > 780 mg/L (Cyprinus carpio) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata)		EC50 48 h: = 3.82 mg/L (water flea) LC50 48 h: = 0.6 mg/L (Gammarus lacustris)
Chlorinated hydrocarbons (chlorinated paraffins)		LC50 96 h: 94.5-271 mg/L static (Oncorhynchus mykiss) LC50 96 h: > 0.0109 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: > 0.1 mg/L flow-through (Lepomis macrochirus) LC50 96 h: > 100 mg/L static (Pimephales promelas) LC50 96 h: > 300 mg/L static (Lepomis macrochirus)		EC50 24 h: = 102 mg/L (Daphnia magna)
Cumene	EC50 72 h: = 2.6 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 6.04-6.61 mg/L flow-through (Pimephales promelas) LC50 96 h: = 2.7 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 4.8 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 5.1 mg/L semi-static (Poecilia reticulata)	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	EC50 48 h: 7.9 - 14.1 mg/L Static (Daphnia magna) EC50 48 h: = 0.6 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

Chemical Name	Log Pow
1,2,4 Trimethylbenzene	3.63
Xylene, mixed isomers	3.15
Chlorinated hydrocarbons (chlorinated paraffins)	6.006
Cumene	3.55

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, (42.22°C c.c.), Marine Pollutant
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
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)
14.5. Environmental hazard	yes
14.6. Special Provisions	None.
Classification Code	F1
Tunnel Restriction Code	(D/E)

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 R-phrases referred to under Sections 2 and 3

R65 - Harmful: may cause lung damage if swallowed

R10 - Flammable

R20 - Harmful by inhalation

R37 - Irritating to respiratory system

R45 - May cause cancer

R46 - May cause heritable genetic damage

R38 - Irritating to skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R36/37/38 - Irritating to eyes, respiratory system and skin
R20/21 - Harmful by inhalation and in contact with skin
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R37/38 - Irritating to respiratory system and skin

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

H226 - Flammable liquid and vapor
H335 - May cause respiratory irritation
H411 - Toxic to aquatic life with long lasting effects
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H332 - Harmful if inhaled
H413 - May cause long lasting harmful effects to aquatic life
H412 - Harmful to aquatic life with long lasting effects
H340 - May cause genetic defects if inhaled
H350 - May cause cancer if swallowed
H304 - May be fatal if swallowed and enters airways
H319 - Causes serious eye irritation

Key literature references and sources for data

www.ChemADVISOR.com/

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End of Safety Data Sheet