



SAFETY DATA SHEET

Issuing Date 01-Oct-2014

Revision Date 26-Feb-2016

Revision Number 1

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

1.1. Product identifier

Product Name Hi Purity Action Marker, all colors

Part Number 33729, 44729 (White), 44916 (Yellow), 33404, 44404 (Black), 33301, 44301 (Red), 44534 (Blue)

Formula Code P729 (White), Z916 (Yellow), Q404 (Black), T301 (Red), Z534 (Blue)

Synonyms Hi Purity AM 33- Fine, and 44-Medium

Contains 1,2,4 Trimethylbenzene, Xylene, mixed isomers

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
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive Toxicity	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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2.2. Label Elements



Signal Word

Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H411 - Toxic to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

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

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
 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
 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
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P308 + P313 - IF exposed or concerned: Get medical advice/ attention
 P405 - Store locked up
 P501 - Dispose of contents/ container to an approved waste disposal plant

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 %	EU - GHS Substance Classification	REACH No.
Diacetone alcohol	204-626-7	123-42-2	30-60	Eye Irrit. 2 (H319)	No data available
Petroleum naphtha, light aromatic	265-199-0	64742-95-6	15-40	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
1,2,4 Trimethylbenzene	202-436-9	95-63-6	15-40	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
Propylene glycol monomethyl ether	203-539-1	107-98-2	10-30	Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
Xylene, mixed isomers	215-535-7	1330-20-7	10-30	Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)	No data available

1,3,5-Trimethylbenzene	203-604-4	108-67-8	3-7	Flam. Liq. 3 (H226) STOT SE 3 (H335) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	No data available
Ethylbenzene	202-849-4	100-41-4	3-7	Flam. Liq. 2 (H225) STOT RE 2 (H373) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304) Acute Tox. 4 (H332)	No data available
Methyl pyrrolidone	212-828-1	872-50-4	1-5	Skin Irrit. 2 (H315) Repr. 1B (H360D) STOT SE 3 (H335) Eye Irrit. 2 (H319)	No data available
Diethylbenzene	246-874-9	25340-17-4	1-5	Aquatic Chronic 4 (H413)	No data available
Cumene	202-704-5	98-82-8	1-5	Flam. Liq. 3 (H226) STOT SE 3 (H335) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	No data available
Naphtha (petroleum), heavy alkylate	265-067-2	64741-65-7	1-5	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
Stoddard solvent	232-489-3	8052-41-3	1-5	STOT RE 1 (H372) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	No data available
2-Ethylhexanoic acid	205-743-6	149-57-5	0.1-1	Repr. 2 (H361d)	No data available
Toluene	203-625-9	108-88-3	0.1-1	Skin Irrit. 2 (H315) Flam. Liq. 2 (H225) Repr. 2 (H361d) STOT RE 2 (H373) STOT SE 3 (H336) Asp. Tox. 1 (H304)	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

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**

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. 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
Diacetone alcohol 123-42-2		STEL: 75 ppm STEL: 362 mg/m ³ TWA: 50 ppm TWA: 241 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³	TWA: 50 ppm TWA: 241 mg/m ³	TWA: 20 ppm TWA: 96 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 192 mg/m ³ Skin
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
Propylene glycol monomethyl ether 107-98-2	S* TWA 100 ppm TWA 375 mg/m ³ STEL 150 ppm STEL 568 mg/m ³	STEL: 150 ppm STEL: 560 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³ Skin	VME: 50 ppm VME: 188 mg/m ³ VLCT: 100 ppm VLCT: 375 mg/m ³	S* VLA-EC: 150 ppm VLA-EC: 568 mg/m ³ VLA-ED: 100 ppm VLA-ED: 375 mg/m ³	MAK: 100 ppm MAK: 370 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 740 mg/m ³ TWA: 100 ppm TWA: 370 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
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
Ethylbenzene 100-41-4	S* TWA 100 ppm TWA 442 mg/m ³ STEL 200 ppm STEL 884 mg/m ³	STEL: 125 ppm STEL: 552 mg/m ³ TWA: 100 ppm TWA: 441 mg/m ³ Skin	TWA: 20 ppm TWA: 88.4 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³	S* STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 441 mg/m ³	TWA: 20 ppm TWA: 88 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 176 mg/m ³ Skin
Methyl pyrrolidone 872-50-4	(3rd:) TWA 10 ppm (3rd:) TWA 40 mg/m ³ (3rd:) STEL 20 ppm (3rd:) STEL 80 mg/m ³ (3rd:) S*	STEL: 75 ppm STEL: 309 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³ Skin	TWA: 40 mg/m ³ TWA: 10 ppm STEL: 80 mg/m ³ STEL: 20 ppm	S* STEL: 20 ppm STEL: 80 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³	TWA: 20 ppm TWA: 82 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 164 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
Toluene 108-88-3	TWA 50 ppm TWA 192 mg/m ³ S* STEL 100 ppm STEL 384 mg/m ³	STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 191 mg/m ³ Skin	TWA: 20 ppm TWA: 76.8 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³	S* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	TWA: 50 ppm TWA: 190 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 760 mg/m ³ Skin
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Diacetone alcohol 123-42-2 (30-60)		TWA: 50 ppm		TWA: 50 ppm TWA: 240 mg/m ³ STEL: 75 ppm STEL: 360 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³
1,2,4 Trimethylbenzene 95-63-6 (15-40)	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
Propylene glycol monomethyl ether 107-98-2 (10-30)	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin	STEL: 150 ppm TWA: 100 ppm	Skin STEL: 563 mg/m ³ TWA: 375 mg/m ³	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Skin	TWA: 50 ppm TWA: 185 mg/m ³
Xylene, mixed isomers 1330-20-7 (10-30)	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Skin	STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	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
1,3,5-Trimethylbenzene 108-67-8 (3-7)	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
Ethylbenzene 100-41-4 (3-7)	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Skin	STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 442 mg/m ³	Skin STEL: 430 mg/m ³ TWA: 215 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 200 ppm STEL: 880 mg/m ³ Skin	TWA: 50 ppm TWA: 217 mg/m ³ Skin
Methyl pyrrolidone 872-50-4 (1-5)			Skin STEL: 80 mg/m ³ TWA: 40 mg/m ³	TWA: 10 ppm TWA: 40 mg/m ³ STEL: 20 ppm STEL: 80 mg/m ³ Skin	TWA: 5 ppm TWA: 20 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
Stoddard solvent 8052-41-3 (1-5)		TWA: 100 ppm			TWA: 25 ppm TWA: 145 mg/m ³
2-Ethylhexanoic acid 149-57-5 (0.1-1)		TWA: 5 mg/m ³			
Toluene 108-88-3 (0.1-1)	TWA: 50 ppm TWA: 192 mg/m ³ Skin	STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	STEL: 384 mg/m ³ TWA: 150 mg/m ³	TWA: 25 ppm TWA: 81 mg/m ³ STEL: 100 ppm STEL: 380 mg/m ³ Skin	TWA: 25 ppm TWA: 94 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Diacetone alcohol 123-42-2	Skin TWA: 50 ppm TWA: 240 mg/m ³	Skin STEL: 40 ppm STEL: 192 mg/m ³ TWA: 20 ppm TWA: 96 mg/m ³	TWA: 240 mg/m ³	TWA: 25 ppm TWA: 120 mg/m ³ STEL: 37.5 ppm STEL: 150 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³ STEL: 75 ppm STEL: 360 mg/m ³

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
Propylene glycol monomethyl ether 107-98-2	Skin STEL 50 ppm STEL 187 mg/m ³ MAK: 50 ppm MAK: 187 mg/m ³ Ceiling 50 ppm Ceiling 187 mg/m ³	STEL: 200 ppm STEL: 720 mg/m ³ MAK: 100 ppm MAK: 360 mg/m ³	NDSCh: 360 mg/m ³ NDS: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ Skin STEL: 75 ppm STEL: 225 mg/m ³	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 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	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
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
Ethylbenzene 100-41-4	Skin STEL 200 ppm STEL 880 mg/m ³ TWA: 100 ppm TWA: 440 mg/m ³	Skin STEL: 50 ppm STEL: 220 mg/m ³ TWA: 50 ppm TWA: 220 mg/m ³	STEL: 400 mg/m ³ TWA: 200 mg/m ³	TWA: 5 ppm TWA: 20 mg/m ³ Skin STEL: 10 ppm STEL: 30 mg/m ³	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Skin
Methyl pyrrolidone 872-50-4	Skin STEL 20 ppm STEL 80 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³	Skin STEL: 40 ppm STEL: 160 mg/m ³ TWA: 20 ppm TWA: 80 mg/m ³	STEL: 80 mg/m ³ TWA: 40 mg/m ³ Skin	TWA: 5 ppm TWA: 20 mg/m ³ Skin STEL: 20 ppm STEL: 80 mg/m ³	TWA: 25 ppm TWA: 101 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
Stoddard solvent 8052-41-3		TWA: 100 ppm TWA: 525 mg/m ³	STEL: 900 mg/m ³ TWA: 300 mg/m ³		TWA: 100 ppm TWA: 573 mg/m ³
2-Ethylhexanoic acid 149-57-5					TWA: 4 mg/m ³
Toluene 108-88-3	Skin STEL 100 ppm STEL 380 mg/m ³ TWA: 50 ppm TWA: 190 mg/m ³	Skin STEL: 200 ppm STEL: 760 mg/m ³ TWA: 50 ppm TWA: 190 mg/m ³	STEL: 200 mg/m ³ TWA: 100 mg/m ³	TWA: 25 ppm TWA: 94 mg/m ³ Skin STEL: 37.5 ppm STEL: 141 mg/m ³	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 384 mg/m ³ STEL: 100 ppm 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

Xylene, mixed isomers 1330-20-7			1500 mg/g creatinine urine end of shift Methylhippuric acid	1 g/g Creatinine urine end of shift Methylhippuric acids 2	1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)a cid all isomers
1,3,5-Trimethylbenzene 108-67-8			600 mg/g creatinine urine end of shift after several shifts Total Dimethylbenzoic acids (after hydrolysis)		
Ethylbenzene 100-41-4			1500 mg/g creatinine urine end of shift at end of workweek Mandelic acid Non-specific (observed after the exposure to other substances)	700 mg/g Creatinine urine end of workweek Mandelic acid plus Phenylglyoxylic acid 1,I,S	300 mg/g urine end of shift Mandelic acid plus Phenylglyoxylic acid
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
Toluene 108-88-3			1 mg/L blood end of shift Toluene Semi-quantitative (ambiguous interpretation) 2500 mg/g creatinine urine end of shift Hippuric acid Background noise on non-exposed subjects, Non-specific (observed after the exposure to other substances)	0.5 mg/L urine end of shift o-Cresol 2,F 1.6 g/g Creatinine urine end of shift Hippuric acid 2,F,I 0.05 mg/L blood start of last shift of workweek Toluene 5	600 µg/L whole blood end of shift Toluene 1.5 mg/L urine end of several shifts o-Cresol after hydrolysis; for long-term exposures
Component	Italy	Portugal	Netherlands	Finland	Denmark
Xylene, mixed isomers 1330-20-7 (10-30)	(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acid Technical or commercial grade				
Ethylbenzene 100-41-4 (3-7)	(ACGIH:) 0.7 g/g Creatinine urine end of shift at end of workweek Sum of Mandelic acid and Phenylglyoxylic acid Nonspecific, semi-quantitative (ACGIH:) end-exhaled air not critical Ethyl benzene Semi-quantitative				
Methyl pyrrolidone 872-50-4 (1-5)	(ACGIH:) 100 mg/L urine end of shift 5-Hydroxy-N-methyl-2- pyrrolidone				

Toluene 108-88-3 (0.1-1)	(ACGIH:) 0.3 mg/g Creatinine urine end of shift o-Cresol (with hydrolysis) Background (ACGIH:) 0.03 mg/L urine end of shift Toluene (ACGIH:) 0.02 mg/L blood prior to last shift of workweek Toluene				
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Propylene glycol monomethyl ether 107-98-2		20 mg/L urine end of shift 1-Methoxypropanol-2			
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			
Ethylbenzene 100-41-4		800 mg/L urine end of shift Mandelic acid and phenylglyoxylacid			
Cumene 98-82-8		50 mg/g creatinine urine end of shift 2-Phenyl-2-propanol			
Toluene 108-88-3		600 µg/L whole blood end of shift Toluol 2 g/g creatinine urine end of shift, and after several shifts (for long-term exposures) Hippuric acid N, X 0.5 mg/L urine end of shift, and after several shifts (for long-term exposures) o-Cresol Q			
Component	Romania	Slovakia	Latvia	Bulgaria	
Xylene, mixed isomers 1330-20-7 (10-30)	3 g/L urine end of shift Methylhippuric acid	1.5 mg/L blood end of exposure or work shift Xylene all isomers 2000 mg/L urine end of exposure or work shift Methylhippuric acid			
Ethylbenzene 100-41-4 (3-7)	1.5 g/g Creatinine urine end of work week Mandelic acid	12 mg/L urine end of exposure or work shift 2 and 4-Ethylphenol also after all work shifts for long-term exposure 1600 mg/L urine end of exposure or work shift Mandelic acid and phenylglycolic acid also after all work shifts for long-term exposure			
Toluene 108-88-3 (0.1-1)	2 g/L urine end of shift Hippuric acid 3 mg/L urine end of shift o-Cresol	600 µg/L blood end of exposure or work shift Toluene 1.5 mg/L urine after all work shifts o-Cresol for long-term exposure 1.5 mg/L urine end of exposure or work shift o-Cresol 1600 mg/g creatinine end of exposure or work shift Hippuric 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	Safety glasses with side-shields. If splashes are likely to occur, wear: Chemical splash goggles.
Skin and Body Protection	Chemical resistant gloves. 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	Thin viscosity, Opaque, 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	120-170 °C / 248-338 °F	None known
Flash Point	31.67 - 42.22 °C / 89 - 108 °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	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 (%)	Z534 Blue: 67.72% P729 White: 37.89% T301 Red: 71.9% Z916 Yellow: 36.43%
VOC (g/l)	Q404 Black: 84.91% Z534 Blue: 719 g/L P729 White: 465 g/L T301 Red: 669 g/L Z916 Yellow: 447 g/L Q404 Black: 816 g/L
Flammability Limits in Air	
Upper	12.6
Lower	1.0

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

Product does not present an acute toxicity hazard based on known or supplied information.

May be harmful by inhalation. May cause irritation of respiratory tract. May cause drowsiness and dizziness.

Irritating to eyes. Causes serious eye irritation.

Irritating to skin. Causes skin irritation.

May be fatal if swallowed and enters airways.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Diacetone alcohol	= 4 g/kg (Rat)	= 13500 mg/kg (Rabbit)	
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
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
Xylene, mixed isomers	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit) > 1700 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h
Silicon dioxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>2.2 mg/L (Rat) 4 h
1,3,5-Trimethylbenzene	= 5000 mg/kg (Rat)		= 24 g/m ³ (Rat) 4 h
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
Aluminum hydroxide	> 5000 mg/kg (Rat)	-	-
Methyl pyrrolidone	= 3598 mg/kg (Rat)	= 2500 mg/kg (Rat) > 5000 mg/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h
Cumene	= 1400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 39000 mg/m ³ (Rat) 4 h
2-Ethylhexanoic acid	= 3 g/kg (Rat)	= 1260 mg/kg (Rabbit) > 2000 mg/kg (Rat)	
Toluene	>5580 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h

Sensitization

Mutagenic Effects

Carcinogenic Effects

No information available.

May cause genetic defects.

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

Reproductive Toxicity

Developmental Toxicity

STOT - single exposure

STOT - repeated exposure

No information available.

No information available.

No information available.

No information available.

Target Organ Effects	Blood. Central nervous system (CNS). Eyes. Kidney. Liver. Lungs. 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)
Diacetone alcohol		LC50 96 h: = 420 mg/L static (Lepomis macrochirus) LC50 96 h: = 420 mg/L (Lepomis macrochirus)		EC50 24 h: = 8750 mg/L (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)
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)
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)
1,3,5-Trimethylbenzene		LC50 96 h: = 3.48 mg/L (Pimephales promelas)		EC50 24 h: = 50 mg/L (Daphnia magna)
Ethylbenzene	EC50 96 h: 1.7 - 7.6 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 4 mg/L static (Rainbow trout)		EC50 48 h: 1-4 mg/L (Daphnia magna)
Methyl pyrrolidone	EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 832 mg/L static (Lepomis macrochirus) LC50 96 h: = 4000 mg/L static (Leuciscus idus) LC50 96 h: = 1072 mg/L static (Pimephales promelas) LC50 96 h: = 1400 mg/L static (Poecilia reticulata)		EC50 48 h: = 4897 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)
Naphtha (petroleum), heavy alkylate	EC50 72 h: = 30000 mg/L (Pseudokirchneriella subcapitata)			LC50 48 h: = 2 mg/L (Mysidopsis bahia)
2-Ethylhexanoic acid	EC50 96 h: = 41 mg/L (Desmodesmus subspicatus) EC50 72 h: = 61 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 70 mg/L (Pimephales promelas)	EC50 = 110 mg/L 17 h EC50 = 670 mg/L 30 min	EC50 48 h: = 85.4 mg/L (Daphnia magna)
Toluene	EC50: 12.5 mg/L Pseudokirchneriella subcapitata 72 h static	LC50: 96 h static <=10 mg/L (Rainbow trout)		LC50 48 h: 7.6 mg/L (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Log Pow
Diacetone alcohol	1.03
1,2,4 Trimethylbenzene	3.63
Propylene glycol monomethyl ether	-0.437
Xylene, mixed isomers	3.15
Ethylbenzene	3.118
Methyl pyrrolidone	-0.46
Cumene	3.55
2-Ethylhexanoic acid	2.7
Toluene	2.65

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.)
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 H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor

H332 - Harmful if inhaled

H226 - Flammable liquid and vapor

H336 - May cause drowsiness or dizziness

H335 - May cause respiratory irritation

H411 - Toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H361d - Suspected of damaging the unborn child

H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation

H312 - Harmful in contact with skin

H413 - May cause long lasting harmful effects to aquatic life

H340 - May cause genetic defects if inhaled

H350 - May cause cancer if swallowed

H360D - May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

EUH210 - Safety data sheet available on request

H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure if inhaled

Key literature references and sources for data

www.ChemADVISOR.com/

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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