



SAFETY DATA SHEET

Issuing Date 01-Oct-2014

Revision Date 01-Oct-2014

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Hi Temperature 44 All colors

Other means of identification

Part Number 44219 (White), 44424 (Yellow), 44250 (Black), 44266 (Green), 44094 (Blue)

Formula Code Z219 (White), Z424 (Yellow), ER250 (Black), ER266 (Green), A094M (Blue)

UN-Number UN1263

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based marker

Uses advised against No information available

Supplier's details

Supplier Address
ITW PRO BRANDS
805 E. Old 56 Highway
Olathe, KS 66061
TEL: 1-800-443-9536

Emergency telephone number

Emergency Telephone Number 800-535-5053 Infotrac

2. HAZARDS IDENTIFICATION


Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

Aspiration Toxicity	Category 1
Flammable liquids	Category 3

GHS Label elements, including precautionary statements**Emergency Overview**

Signal Word	Danger	
Hazard Statements		
<ul style="list-style-type: none"> • Causes skin irritation • May cause an allergic skin reaction • May cause genetic defects • May cause cancer • May damage fertility or the unborn child • May cause damage to organs through prolonged or repeated exposure • May be fatal if swallowed and enters airways • May cause respiratory irritation • Flammable liquid and vapor. 		
		
Appearance Opaque, Varies, Thin viscosity,	Physical State Liquid.	Odor Aromatic

Precautionary Statements**Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Keep cool.

General Advice

- If exposed or concerned: Get medical attention/advice
- Specific treatment (see supplemental first aid instructions on this label)

Eyes

- None

Skin

- If skin irritation or rash occurs: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

Fire

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

Spills and Leaks

- None

Storage

- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.

Disposal

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

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Toxic to aquatic life with long lasting effects

32.76865% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Petroleum naphtha, light aromatic	64742-95-6	15-40	*
1,2,4 Trimethylbenzene	95-63-6	10-30	*
Chromium (III) oxide	1308-38-9	10-30	*
Chemical Frits (Lead free)	65997-18-4	10-30	*
Chrome yellow (Lead chromate pigment)	1344-37-2	10-30	*
Xylene, mixed isomers	1330-20-7	10-30	*
Titanium dioxide	13463-67-7	10-30	*
Ethylbenzene	100-41-4	5-10	*
1,3,5-Trimethylbenzene	108-67-8	3-7	*
Carbon black	1333-86-4	1-5	*
Quartz	14808-60-7	1-5	*
Diethylbenzene	25340-17-4	1-5	*
Cumene	98-82-8	1-5	*
Silicon dioxide	7631-86-9	1-5	*
Stoddard solvent	8052-41-3	1-5	*
Aluminum hydroxide	21645-51-2	1-5	*
2-Ethylhexanoic acid	149-57-5	0.1-1	*
Toluene	108-88-3	0.1-1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary 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.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Consult a physician if necessary

Protection of First-aiders Use personal protective equipment. Remove all sources of ignition.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

May cause sensitization by skin contact. Thermal decomposition can lead to release of irritating gases and vapors. Risk of ignition

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Environmental Precautions

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. Avoid release to the environment. Collect spillage. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal. Prevent further leakage or spillage if safe to do so.

Methods for 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.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. 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. Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Conditions for safe storage, including any incompatibilities

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

Incompatible Products Strong oxidizing agents. Strong acids. Strong reducing agents. Strong alkalis.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,2,4 Trimethylbenzene 95-63-6	TWA: 25 ppm	(vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m ³	TWA: 25 ppm TWA: 125 mg/m ³
Chromium (III) oxide 1308-38-9	TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr (vacated) TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III) TWA: 0.5 mg/m ³ Cr
Chemical Frits (Lead free) 65997-18-4	STEL: 10 mg/m ³ Zr TWA: 5 mg/m ³ Zr TWA: 0.2 mg/m ³ Mn	TWA: 5 mg/m ³ Zr (vacated) TWA: 5 mg/m ³ Zr (vacated) STEL: 10 mg/m ³ Zr (vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³ Mn	IDLH: 5 mg/m ³ As IDLH: 9 mg/m ³ Cd dust and fume IDLH: 50 mg/m ³ Sb IDLH: 100 mg/m ³ Cu dust and mist IDLH: 500 mg/m ³ Mn IDLH: 25 mg/m ³ Zr IDLH: 100 mg/m ³ Pb IDLH: 10 mg/m ³ Ni Ceiling: 0.002 mg/m ³ As 15 min Ceiling: 0.05 mg/m ³ V dust and fume 15 min TWA: 0.5 mg/m ³ Sb TWA: 1 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Mn TWA: 5 mg/m ³ except Zirconium tetrachloride Zr TWA: 0.050 mg/m ³ Pb TWA: 0.015 mg/m ³ except Nickel carbonyl Ni STEL: 3 mg/m ³ Mn STEL: 10 mg/m ³ Zr
Chrome yellow (Lead chromate pigment) 1344-37-2	TWA: 0.05 mg/m ³ Pb	TWA: 5 µg/m ³ TWA: 50 µg/m ³ Pb Action Level: 2.5 µg/m ³ Cr Action Level: 30 µg/m ³ Pb Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m ³ Pb TWA: 0.050 mg/m ³ Pb
Xylene, mixed isomers 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³
1,3,5-Trimethylbenzene 108-67-8	TWA: 25 ppm	(vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m ³	TWA: 25 ppm TWA: 125 mg/m ³

Carbon black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	30/(%SiO ₂ +2) mg/m ³ TWA, Total Dust; 250/(%SiO ₂ +5) mppcf TWA, respirable fraction; 10/(%SiO ₂ +2) mg/m ³ TWA, respirable TWA: 0.1 mg/m ³ (vacated)	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m ³ (vacated) S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m ³
Silicon dioxide 7631-86-9	10 mg/m ³	20 mppcf TWA; ((80)/(%) SiO ₂) mg/m ³	IDLH: 3000 mg/m ³ TWA: 6 mg/m ³
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³
Aluminum hydroxide 21645-51-2	TWA: 1 mg/m ³ respirable fraction	-	-
2-Ethylhexanoic acid 149-57-5	TWA: 5 mg/m ³ inhalable fraction and vapor	-	-
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur, wear: Chemical splash goggles.
Skin and Body Protection Risk of contact: Chemical resistant gloves. Boots. Apron.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Opaque, Varies Thin viscosity,
Odor	Aromatic	Odor Threshold	No information available

<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	None known

Evaporation rate		None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	12.6
lower flammability limit	No data available	1.9
Vapor Pressure	No data available	None known
Vapor Density	> 1 (air = 1)	None known
Specific Gravity	No data available.	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

Other information

VOC Content (%)	ER250 Black: 57.63% Z219 White: 52.35% A094 Blue: 67.72% Z424 Yellow: 58.69%
VOC (g/l)	ER266 Green: 60.99% ER250 Black: 642 g/L Z219 White: 666 g/L A094 Blue: 719 g/L Z424 Yellow: 700 g/L ER266 Green: 695 g/L

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Incompatible products.

Incompatible materials

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

Hazardous decomposition products

Carbon oxides. Smoke Soot.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

May cause irritation of respiratory tract. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

Eye Contact

Contact with eyes may cause irritation.

Skin Contact

Causes skin irritation.

Ingestion

May be harmful if swallowed. May be fatal if swallowed and enters airways.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2,4 Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
Chrome yellow (Lead chromate pigment)	> 5000 mg/kg (Rat)	-	-
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
Titanium dioxide	> 10000 mg/kg (Rat)	-	-
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
1,3,5-Trimethylbenzene	= 5000 mg/kg (Rat)	-	= 24 g/m ³ (Rat) 4 h
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Quartz	500 mg/kg (Rat)	-	-
Cumene	= 1400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 39000 mg/m ³ (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)	-	-
2-Ethylhexanoic acid	= 3 g/kg (Rat)	= 1260 mg/kg (Rabbit) > 2000 mg/kg (Rat)	-
Toluene	>5580 mg/kg (Rat)	12124 mg/kg (Rat) 8390 mg/kg (Rabbit)	26700 ppm (Rat) 1 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization

May cause an allergic skin reaction.

Mutagenic Effects

May cause genetic defects.

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Chromium (III) oxide		Group 3		
Chemical Frits (Lead free)	A1 A3 A2	Group 1 Group 2B Group 2A	Known Reasonably Anticipated	X
Chrome yellow (Lead chromate pigment)	A3	Group 1 Group 2A	Known Reasonably Anticipated	X
Xylene, mixed isomers		Group 3		
Titanium dioxide		Group 2B	-	-
Ethylbenzene	A3	Group 2B		X
Carbon black	A3	Group 2B	-	X
Quartz	A2	Group 1	Known	X
Cumene		Group 2B		
Silicon dioxide		Group 3		
Toluene		Group 3	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Toxicity**STOT - single exposure****STOT - repeated exposure****Chronic Toxicity**

Product is or contains a chemical which is a known or suspected reproductive hazard.

No information available.

May cause damage to organs through prolonged or repeated exposure.

Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Avoid repeated exposure. Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. Contains a known or suspected reproductive toxin. May cause adverse effects on the bone marrow and blood-forming system.

Target Organ Effects

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

Aspiration Hazard

May be fatal if swallowed and enters airways

Numerical measures of toxicity - Product**Acute Toxicity** 32.76865% of the mixture consists of ingredient(s) of unknown toxicity.*The following values are calculated based on chapter 3.1 of the GHS document:***LD50 Oral** 1039 mg/kg; Acute toxicity estimate**LD50 Dermal** 7091 mg/kg; Acute toxicity estimate**Inhalation****dust/mist** 17 mg/L; Acute toxicity estimate**Vapor** 45.18 mg/L; Acute toxicity estimate**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum naphtha, light aromatic 64742-95-6		LC50 96 h: = 9.22 mg/L (Oncorhynchus mykiss)		EC50 48 h: = 6.14 mg/L (Daphnia magna)
1,2,4 Trimethylbenzene 95-63-6		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)
Chrome yellow (Lead chromate pigment) 1344-37-2		LC50 96 h: > 10000 mg/L static (Leuciscus idus)	EC50 > 10000 mg/L 30 min	

Xylene, mixed isomers 1330-20-7	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)
Ethylbenzene 100-41-4	EC50 72 h: = 4.6 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: > 438 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: 2.6 - 11.3 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 1.7 - 7.6 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 11.0 - 18.0 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 4.2 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: 7.55 - 11 mg/L flow-through (Pimephales promelas) LC50 96 h: = 32 mg/L static (Lepomis macrochirus) LC50 96 h: 9.1 - 15.6 mg/L static (Pimephales promelas) LC50 96 h: = 9.6 mg/L static (Poecilia reticulata)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 48 h: 1.8 - 2.4 mg/L (Daphnia magna)
1,3,5-Trimethylbenzene 108-67-8		LC50 96 h: = 3.48 mg/L (Pimephales promelas)		EC50 24 h: = 50 mg/L (Daphnia magna)
Carbon black 1333-86-4				EC50 24 h: > 5600 mg/L (Daphnia magna)
Cumene 98-82-8	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)
Silicon dioxide 7631-86-9	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)
2-Ethylhexanoic acid 149-57-5	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 108-88-3	EC50: >433 mg/L Pseudokirchneriella subcapitata 96 h EC50: 12.5 mg/L Pseudokirchneriella subcapitata 72 h static	LC50: 15.22-19.05 mg/L Pimephales promelas 96 h flow-through LC50: 12.6 mg/L Pimephales promelas 96 h static LC50: 5.89-7.81 mg/L Oncorhynchus mykiss 96 h flow-through LC50: 14.1-17.16 mg/L Oncorhynchus mykiss 96 h static LC50: 5.8 mg/L Oncorhynchus mykiss 96 h semi-static LC50: 11.0-15.0 mg/L Lepomis macrochirus 96 h static LC50: 54 mg/L Oryzias latipes 96 h static LC50: 28.2 mg/L Poecilia reticulata 96 h semi-static LC50: 50.87-70.34 mg/L Poecilia reticulata 96 h static	EC50 = 19.7 mg/L 30 min	EC50 48 h: 5.46 - 9.83 mg/L Static (Daphnia magna) EC50 48 h: = 11.5 mg/L (Daphnia magna)
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Persistence and Degradability No information available.

Bioaccumulation

Chemical Name	Log Pow
1,2,4 Trimethylbenzene	3.63
Xylene, mixed isomers	2.77 - 3.15
Ethylbenzene	3.118
Cumene	3.55
2-Ethylhexanoic acid	2.7
Toluene	2.65

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number
D001
U055
U220
U239

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Xylene, mixed isomers - 1330-20-7		Included in waste stream: F039		U239
Ethylbenzene - 100-41-4		Included in waste stream: F039		
Cumene - 98-82-8				U055
Toluene - 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		U220
Component	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes

Toluene 108-88-3 (0.1-1)			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	
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This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Chromium (III) oxide	Toxic Corrosive Ignitable
Chrome yellow (Lead chromate pigment)	Toxic Corrosive Ignitable
Xylene, mixed isomers	Toxic Ignitable
Ethylbenzene	Toxic Ignitable
Cumene	Toxic Ignitable
Toluene	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III, Marine Pollutant
Emergency Response Guide Number 128

TDG

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III, Marine Pollutant

MEX

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III

ICAO

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3

Packing Group III
Description UN1263, Paint, 3, III

IATA

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
ERG Code 3L
Description UN1263, Paint, 3, III

IMDG/IMO

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
EmS No. F-E, S-E
Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO
Description UN1263, Paint, 3, III, (42.22°C c.c.), Marine Pollutant

RID

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Classification Code F1
Description UN1263, Paint, 3, III

ADR

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Classification Code F1
Tunnel Restriction Code (D/E)
Description UN1263, Paint, 3, III, (D/E)

ADN

Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Classification Code F1
Special Provisions 163, 640E, 650
Description UN1263, Paint, 3, III
Limited Quantity 5 L
Ventilation VE01

15. REGULATORY INFORMATION

International Inventories**Legend**

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

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

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
1,2,4 Trimethylbenzene	95-63-6	10-30	1.0
Chromium (III) oxide	1308-38-9	10-30	1.0
Chemical Frits (Lead free)	65997-18-4	10-30	0.1 1.0

Chrome yellow (Lead chromate pigment)	1344-37-2	10-30	0.1
Xylene, mixed isomers	1330-20-7	10-30	1.0
Spinels, chromium cobalt iron black	68186-97-0	10-30	1.0
C.I. Pigment Blue 28	1345-16-0	10-30	0.1
Ethylbenzene	100-41-4	5-10	0.1
Cumene	98-82-8	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chromium (III) oxide		X		
Chemical Frits (Lead free)		X		
Chrome yellow (Lead chromate pigment)		X		
Xylene, mixed isomers	100 lb			X
Ethylbenzene	1000 lb	X	X	X
Toluene	1000 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Xylene, mixed isomers	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Ethylbenzene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Cumene	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Toluene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Chemical Frits (Lead free)	65997-18-4	Carcinogen Developmental
Chrome yellow (Lead chromate pigment)	1344-37-2	Carcinogen Developmental Female Reproductive Male Reproductive
Titanium dioxide	13463-67-7	Carcinogen
Ethylbenzene	100-41-4	Carcinogen
Carbon black	1333-86-4	Carcinogen
Quartz	14808-60-7	Carcinogen
Cumene	98-82-8	Carcinogen
2-Ethylhexanoic acid	149-57-5	Developmental
Toluene	108-88-3	Developmental
Chromium (VI)	18540-29-9	Carcinogen Developmental Female Reproductive Male Reproductive

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
1,2,4 Trimethylbenzene	X	X	X	X	X
Chromium (III) oxide	X	X	X	X	X
Chemical Frits (Lead free)	X		X	X	
Chrome yellow (Lead chromate pigment)			X	X	X
Xylene, mixed isomers	X	X	X	X	X
Titanium dioxide		X			X
C.I. Pigment Blue 28	X		X	X	
Ethylbenzene	X	X	X	X	X
1,3,5-Trimethylbenzene	X	X	X	X	X
Carbon black	X	X	X	X	X
Quartz	X	X	X	-	X
Diethylbenzene	X				
Cumene	X	X	X	X	X
Stoddard solvent	X	X	X		X
Toluene	X	X	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 2	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2*	Flammability 2	Physical Hazard 0	Personal Protection X

*Indicates a chronic health hazard.

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General Disclaimer

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

End of Safety Data Sheet