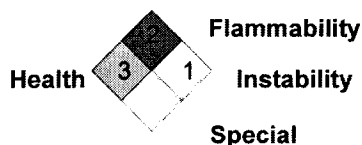


enthone

Material Safety
Data Sheet

Material Safety Data Sheet

Emergency phone: US & Canada: 800 424-9300
Mexico: 01 800 022 1400, (55) 5559 1588



Health	3
Flammability	2
Physical hazard	1
Personal protection	

1. Product and company identification

Product name : ENTHONE® 50-202BR
Product Code : 135652
Material uses : Specialty chemicals for the electronics and surface finishing industries.
Manufacturer : Enthone Inc
350 Frontage Road
West Haven, CT 06516
Phone: (203) 799-4917
Fax: (203) 799-8179
www.cooksonelectronics.com
Enthone OMI deMexico S.A. de C.V.
Norte 59 No. 896
Col. Industrial Vallejo
Mexico, D.F. 02300
Mexico
Phone: 52 55 5078 3904
Fax: 52 555 567 6326
www.cooksonelectronics.com

Validation date : 6/27/2007. **Supersedes Date** : 4/12/2007.
Prepared by : T. Maturo
(203)-799-4917

2. Hazards identification

Physical state : Liquid.
Odor : Mild.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview : **WARNING !**
Combustible liquid. This product contains material(s) that are absorbed through the skin. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Contains material that can cause target organ damage. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. Contains material which may cause heritable genetic effects, based on animal data. Contains material which may cause birth defects, based on animal data. Contains material which can cause developmental abnormalities. Avoid exposure during pregnancy. Contains material which can impair female fertility. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects

Continued on next page

2. Hazards identification

- Inhalation** : Toxic by inhalation. Can cause target organ damage. Irritating to respiratory system. May cause sensitization by inhalation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Adverse symptoms may include the following: wheezing and breathing difficulties asthma anaphylactic shock Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.
- Ingestion** : Toxic if swallowed. Can cause target organ damage. Ingestion may cause gastrointestinal irritation and diarrhea.
- Skin** : Irritating to skin. Toxic in contact with skin. This product contains material(s) that are absorbed through the skin. May cause damage to organs in contact with skin and symptoms similar to those listed under inhalation or ingestion. May cause sensitization by skin contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. Prolonged or repeated contact may cause dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. In the event of any complaints or symptoms, avoid further exposure. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
- Eyes** : Irritating to eyes. Adverse symptoms may include the following: redness, itching, swelling, pain

Potential chronic health effects

- Chronic effects** : Adverse symptoms may include the following:
phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]: May cause allergic skin reactions with repeated exposure.
lead chromate: Other adverse effects: coughing, shortness of breath/breathing difficulty, pulmonary edema, metallic taste, abdominal cramps and pain, nausea or vomiting, "lead line" on gums, intense thirst, visual disturbances, constipation, disturbed sleep, headache, muscle weakness, loss of appetite, dizziness/vertigo, shock, coma and death. Eye contact can result in corneal damage or blindness. May cause burns and "chrome sores". Skin absorption may lead to kidney failure. Severely irritating to skin. Toxic by subcutaneous route.
lead sulphate: Other adverse effects: abdominal cramps and pain, muscle twitching, nausea or vomiting, headache, muscle weakness, loss of appetite, dizziness/vertigo, constipation, loss of consciousness or coma, death. May cause serious psychological disturbances.
- Target organs** : Contains material which causes damage to the following organs: blood, kidneys, the nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, muscle tissue.
Contains material which may cause damage to the following organs: the reproductive system, liver, mucous membranes, heart.
- Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : Contains material which may cause heritable genetic effects, based on animal data.
- Teratogenicity** : Contains material which may cause birth defects, based on animal data.
- Developmental effects** : Contains material which can cause developmental abnormalities.
- Fertility effects** : Contains material which can impair female fertility.
- California Prop. 65** : **WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

- Medical conditions aggravated by over-exposure** : Pre-existing respiratory, skin and digestive disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Persons suffering from respiratory problems or allergic responses should not be exposed to or handle powder coatings.

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	25036-25-3	30-40
lead chromate	7758-97-6	20-30
2-(2-ethoxyethoxy)ethyl acetate	112-15-2	10-20
dipropylene glycol methyl ether	34590-94-8	1-10
2-methoxy-1-methylethyl acetate	108-65-6	1-10
ethyl acrylate-2-ethylhexyl acrylate copolymer	26376-86-3	1-10
barium metal	7440-39-3	1-10
lead sulphate	7446-14-2	0.1-1.0

Any ingredient not listed in Section 3 is non-regulated or present in the product in concentrations below legal disclosure limits.

4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open.
- Skin contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. May cause sensitization by skin contact. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. This product contains material(s) that are absorbed through the skin. See inhalation and ingestion. Wear appropriate personal protective equipment. Avoid direct contact with the human body.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wear suitable protective clothing, gloves and eye/face protection. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing or wear gloves.

5. Fire-fighting measures

Flammability of the product : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.

Continued on next page

5 . Fire-fighting measures

- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products:** : carbon oxides
metal oxide/oxides
- Special remarks on fire hazards** : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Keep in the original container or approved alternative container. Containers should be kept closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7. Handling and storage

Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. Exposure controls/personal protection

<u>Product name</u>	<u>CAS number</u>	<u>Exposure limits</u>
lead chromate	7758-97-6	<p>ACGIH TLV (United States, 2001). TWA: 0.05 mg/m³ 8 hour(s). Form: As Lead TWA: 0.012 mg/m³ 8 hour(s). Form: As Chromium</p> <p>OSHA PEL (United States, 4/2006). TWA: 0.05 mg/m³ 8 hour(s). Form: As Lead</p> <p>OSHA PEL Z2 (United States, 11/2006). CEIL: 1 mg/10m³</p> <p>OSHA PEL (United States, 11/2006). TWA: 5 ug/m³ 8 hour(s).</p> <p>ACGIH TLV (United States, 1/2006). Notes: Measured as Cr TWA: 0.01 mg/m³, (Measured as Cr) 8 hour(s).</p> <p>OSHA PEL 1989 (United States, 3/1989). Notes: as CrO3 CEIL: 0.1 mg/m³, (as CrO3)</p> <p>OSHA PEL 1989 (United States, 3/1989). Notes: as Pb TWA: 50 ug/m³, (as Pb) 8 hour(s).</p> <p>ACGIH TLV (United States, 1/2006). Notes: as Pb TWA: 0.05 mg/m³, (as Pb) 8 hour(s).</p>
dipropylene glycol methyl ether	34590-94-8	<p>ACGIH TLV (United States, 1/2006). Skin STEL: 909 mg/m³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 606 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 12/2001). Skin STEL: 900 mg/m³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 600 mg/m³ 10 hour(s). TWA: 100 ppm 10 hour(s).</p> <p>OSHA PEL (United States, 11/2006). Skin TWA: 600 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s).</p> <p>OSHA PEL 1989 (United States, 3/1989). Skin STEL: 900 mg/m³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 600 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s).</p>
2-methoxy-1-methylethyl acetate	108-65-6	<p>AIHA WEEL (United States, 1/2006). TWA: 50 ppm 8 hour(s).</p>
barium metal	7440-39-3	<p>ACGIH TLV (United States, 2002). TWA: 0.5 mg/m³ 8 hour(s).</p>
lead sulphate	7446-14-2	<p>ACGIH TLV (United States, 1/2006). Notes: as Pb TWA: 0.05 mg/m³, (as Pb) 8 hour(s).</p> <p>OSHA PEL 1989 (United States, 3/1989). Notes: as Pb TWA: 50 ug/m³, (as Pb) 8 hour(s).</p>

Consult local authorities for acceptable exposure limits.

Continued on next page

8 . Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove/Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace.

Personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Eyes** : Avoid contact with eyes.
- Skin** : Avoid contact with skin and clothing. Wear protective clothing. Body garments used should be based upon the task being performed (e.g., lab coat, chemical resistant protective suit, sleevelets, synthetic apron, gauntlets) to avoid exposed skin surfaces. Wash contaminated clothing thoroughly with water before removing or wear gloves.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 62.77°C (145°F) [Setaflash]
- Auto-ignition temperature** : Not available.
- Flammable limits** : Not available.
- Color** : Yellow.
- Odor** : Mild.
- pH** : Not available.
- Boiling/condensation point** : 160°C (320°F)
- Melting/freezing point** : Not available.
- Relative density** : 1.47
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Odor threshold** : Not available.
- Evaporation rate** : Not available.
- VOC** : 33.1 %

Continued on next page

10 . Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatibility with various substances:	: Reactive with oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	CAS number	Result	Species	Dose	Exposure
phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	25036-25-3	LD50 Dermal	Rabbit	>2000 mg/kg	-
lead chromate	7758-97-6	LD50 Oral	Rat	>2000 mg/kg	-
		LD50 Oral	Mouse	>12 g/kg	-
		LD50 Oral	Mouse	>12000 mg/kg	-
2-methoxy-1-methylethyl acetate	108-65-6	LD50 Dermal	Rabbit	>5 g/kg	-
		LD50	Mouse	750 mg/kg	-
		Intraperitoneal			
		LD50 Oral	Rat	8532 mg/kg	-
dipropylene glycol methyl ether	34590-94-8	LD50 Dermal	Rabbit	10 mL/kg	-
		LD50 Oral	Rat	5.5 ml/kg	-
		LD50 Oral	Rat	5400 uL/kg	-
2-(2-ethoxyethoxy)ethyl acetate	112-15-2	LD50 Dermal	Rabbit	15000 mg/kg	-
		LD50 Dermal	Rabbit	15100 uL/kg	-
		LD50 Oral	Rat	11000 mg/kg	-
		LD50 Oral	Rabbit	4400 mg/kg	-
		LD50 Oral	Rat	11 g/kg	-
ethyl acrylate-2-ethylhexyl acrylate copolymer	26376-86-3	LD50 Dermal	Rabbit	>7940 mg/kg	-
lead sulphate	7446-14-2	LD50 Oral	Rat	>7940 mg/kg	-
		LD50	Mouse	600 mg/kg	-
		Intraperitoneal			
		LD50	Rat	282 mg/kg	-
		Intraperitoneal			

Carcinogenicity

Classification

Product/ingredient name	CAS number	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
lead chromate	7758-97-6	A2	1	-	+	Possible	-
lead sulphate	7446-14-2	A3	2B	-	-	Possible	-

Mutagenicity

Product/ingredient name	CAS number	Test	Experiment	Result
lead chromate	7758-97-6	-	Mammalian-Animal	Positive
		-	In vitro; Mammalian-Human; Somatic	Positive
lead sulphate	7446-14-2	-	In vitro; Mammalian-Human; Somatic	Positive
		-	In vitro; Mammalian-Animal; Somatic	Positive

Continued on next page

12 . Ecological information

Aquatic ecotoxicity

Product/ingredient name	CAS number	Test	Result	Species	Exposure	
2-methoxy-1-methylethyl acetate	108-65-6	-	Acute EC50 500 mg/L	Daphnia	48 hours	
		-	Acute LC50 161 mg/L	Fish	96 hours	
ethyl acrylate-2-ethylhexyl acrylate copolymer lead sulphate	26376-86-3	-	Acute LC50 >1000 mg/L	Fish	96 hours	
		7446-14-2	Mortality	Acute LC50 3431 mg/L	Fish	96 hours
			Mortality	Acute LC50 3221 mg/L	Fish	96 hours
			Mortality	Acute LC50 148 mg/L	Fish	96 hours
			Mortality	Acute LC50 60.8 mg/L	Fish	96 hours
			Mortality	Acute LC50 6.24 mg/L	Fish	96 hours

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG* Label	Additional information
DOT Classification	Not regulated.	-	-	-	

PG* : Packing group

15 . Regulatory information

United States

HCS Classification : Combustible liquid
Toxic material
Irritating material
Sensitizing material
Carcinogen
Target organ effects

U.S. Federal regulations All ingredients comply with applicable rules or orders under United States TSCA.
United States inventory (TSCA 8b): All components are listed or exempted.
TSCA 5(a)2 proposed significant rules: lead chromate; lead sulphate
TSCA 5(a)2 final significant rules: lead chromate; lead sulphate

SARA 313

<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
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Continued on next page

15 . Regulatory information

Form R - Reporting requirements	: lead chromate	7758-97-6	20-30
	: 2-(2-ethoxyethoxy)ethyl acetate	112-15-2	10-20
	: dipropylene glycol methyl ether	34590-94-8	1-10
	: barium metal	7440-39-3	1-10
Supplier notification	: lead chromate	7758-97-6	20-30
	: 2-(2-ethoxyethoxy)ethyl acetate	112-15-2	10-20
	: barium metal	7440-39-3	1-10

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada

WHMIS (Canada)	: Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-2B: Material causing other toxic effects (Toxic).
Canada inventory	: Canada inventory: All components are listed or exempted.

16 . Other information

Definition of Terms

ACGIH	American Conference of Governmental Industrial Hygienists
Ceiling	Maximum exposure limit defined by OSHA
CAS	Chemical Abstract Service
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
RTK	Right to Know
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TLV	ACGIH Threshold Limit Value
TLV-C	ACGIH Threshold Limit Value, Ceiling
TRADE SECRET	Claimed as allowed under 29CFR§1910.1200
TSCA	Toxic Substances Control Act
PPE	Personal Protection Equipment
CEPA	Canadian Environmental Protection Act
DSL	Domestic Substance List
NDSL	Non-Domestic Substance List
NSN	New Substance Notification Rules

Disclaimer

This Material Safety Data Sheet may be used to comply with OSHA's Hazard Communication Standard, 29CFR§1910.1200. This Material Safety Data Sheet may also be used to comply with the requirements of Workplace Hazardous Materials Information System, of the Controlled Products Regulations, under the Hazardous Products Act. Enthone furnishes the data contained herein in good faith without liability or legal responsibility for same whatsoever, and no warranty or guarantee, express or implied, is made with respect to such data; nor does Enthone grant permission, recommendation, or inducement to infringe any patent whether owned by Enthone or others. The data is offered solely for your information and consideration. Since conditions of use are beyond Enthone's control, user assumes all responsibility and risk.



Cookson Electronics