SAFETY DATA SHEET

H67XXH16456-4318

Section 1. Identification

Product name	: PERMACLAD® 2400/2500 High Solids Baking Enamel SPRAYTEK BRONZE
Product code	: H67XXH16456-4318
Other means of identification	: Not available.
CAS #	: Not applicable.
Product type	: Liquid.
Relevant identified uses of t	he substance or mixture and uses advised against
Not applicable.	
Manufacturer	: THE SHERWIN-WILLIAMS COMPANY 101 PROSPECT AVENUE N.W. CLEVELAND, OHIO 44115
Emergency telephone number of the company	: (216) 566-2917
Product Information Telephone Number	: Not available.
Regulatory Information Telephone Number	: (216) 566-2902
Transportation Emergency Telephone Number	: (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.4%
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Section 2. Hazards identification

Hazard statements	 Flammable liquid and vapor. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Contains Formaldehyde - a potential cancer hazard.
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name			% by weight	CAS number
Copper			10	7440-50-8
1,2,4-Trimethylbenzene			5.35	95-63-6
Methyl n-Amyl Ketone			4.74	110-43-0
Light Aromatic Hydrocarbons			3.56	64742-95-6
Xylene			3	1330-20-7
1,3,5-Trimethylbenzene			1.43	108-67-8
Mineral Spirits (Odorless)			1.35	64742-47-8
2-Propanol			1.05	67-63-0
Cumene			0.71	98-82-8
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Section 3. Composition/information on ingredients

 Ethylbenzene
 0.48
 100-41-4

 Dibutyltin Oxide
 0.17
 818-08-6

 Formaldehyde (max.)
 0.01 - 0.1
 50-00-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary f	first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. Get medical attention. If necessary, call a poison center or physician. 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.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. 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.

Most important symptoms/	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: May be fatal if swallowed and enters airways.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
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Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: 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.
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.

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: 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.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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). 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Contains a formaldehyde-based resin which, under certain conditions of use, may release formaldehyde. Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	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. Store locked up. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Copper	ACGIH TLV (United States, 3/2016).
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dust
	and mist
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume
	NIOSH REL (United States, 10/2013).
	TWA: 1 mg/m ³ , (as Cu) 10 hours. Form:
	Dusts and Mists
	OSHA PEL (United States, 6/2016).
	TWA: 1 mg/m ³ 8 hours. Form: Dusts and
	Mists
	TWA: 0.1 mg/m ³ 8 hours. Form: Fume
1,2,4-Trimethylbenzene	ACGIH TLV (United States, 3/2016).
	TWA: 25 ppm 8 hours.
	TWA: 123 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 25 ppm 10 hours.
	TWA: 125 mg/m ³ 10 hours.
Methyl n-Amyl Ketone	ACGIH TLV (United States, 3/2016).
, ,	TWA: 50 ppm 8 hours.
	TWA: 233 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 465 mg/m ³ 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 100 ppm 8 hours.
	TWA: 465 mg/m ³ 8 hours.
Light Aromatic Hydrocarbons	None.
Xylene	ACGIH TLV (United States, 3/2016).
,	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m ³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m ³ 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
1,3,5-Trimethylbenzene	ACGIH TLV (United States, 3/2016).
· , - , - · · · · · · · · · · · · · · ·	TWA: 25 ppm 8 hours.
	TWA: 123 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 25 ppm 10 hours.
	TWA: 125 mg/m ³ 10 hours.
Mineral Spirits (Odorless)	ACGIH TLV (United States, 3/2016).
	Absorbed through skin.
	TWA: 200 mg/m ³ , (as total hydrocarbon

2 Propagal	vapor) 8 hours. ACGIH TLV (United States, 3/2016).
2-Propanol	TWA: 200 ppm 8 hours.
	STEL: 400 ppm 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 400 ppm 10 hours.
	TWA: 980 mg/m ³ 10 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m ³ 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 400 ppm 8 hours.
	TWA: 980 mg/m ³ 8 hours.
Cumene	ACGIH TLV (United States, 3/2016).
	TWA: 50 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 50 ppm 10 hours.
	TWA: 245 mg/m ³ 10 hours.
	OSHA PEL (United States, 6/2016).
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 245 mg/m ³ 8 hours.
Ethylbenzene	ACGIH TLV (United States, 3/2016).
	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 435 mg/m ³ 10 hours. STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m ³ 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
Dibutyltin Oxide	ACGIH TLV (United States, 3/2016).
	Absorbed through skin.
	TWA: 0.1 mg/m ³ , (as Sn) 8 hours.
	STEL: 0.2 mg/m ³ , (as Sn) 15 minutes.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 0.1 mg/m ³ , (as Sn) 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 0.1 mg/m³, (as Sn) 8 hours.
Formaldehyde (max.)	ACGIH TLV (United States, 3/2016). Skin
	sensitizer. Inhalation sensitizer.
	C: 0.3 ppm
	C: 0.37 mg/m ³ OSHA PEL Z2 (United States, 2/2013).
	TWA: 0.75 ppm 8 hours.
	STEL: 2 ppm 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 0.016 ppm 10 hours.
	CEIL: 0.1 ppm 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 0.75 ppm 8 hours.
	STEL: 2 ppm 15 minutes.

Occupational exposure limits (Canada)

Ingredient name		Exposure limits
1,2,4-Trimethylbenzene		 CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 123 mg/m³ 8 hours. 8 hrs OEL: 25 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2015). TWA: 25 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 25 ppm 8 hours. TWAEV: 123 mg/m³ 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 25 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2015). TWA: 25 ppm 15 minutes. TWA: 25 ppm 8 hours.
Xylene		 CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 5/2015). TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 7/2015). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Dibutyltin Oxide		CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 15 min OEL: 0.2 mg/m ³ , (as Sn) 15 minutes. 8 hrs OEL: 0.1 mg/m ³ , (as Sn) 8 hours. CA British Columbia Provincial (Canada, 5/2015). Absorbed through skin. TWA: 0.1 mg/m ³ , (as Sn) 8 hours. STEL: 0.2 mg/m ³ , (as Sn) 15 minutes. CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 0.1 mg/m ³ , (as Sn) 8 hours. STEV: 0.2 mg/m ³ , (as Sn) 15 minutes. CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 0.1 mg/m ³ , (as Sn) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 0.2 mg/m ³ , (measured as Sn) 15 minutes. TWA: 0.1 mg/m ³ , (measured as Sn) 8 hours.
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Formaldehyde (max.)	CA Alberta Provincial (Canada, 4/2009).
	C: 1.3 mg/m ³
	8 hrs OEL: 0.75 ppm 8 hours.
	8 hrs OEL: 0.9 mg/m ³ 8 hours.
	C: 1 ppm
	CA British Columbia Provincial (Canada,
	5/2015). Skin sensitizer.
	TWA: 0.3 ppm 8 hours.
	C: 1 ppm
	CA Ontario Provincial (Canada, 7/2015).
	C: 1.5 ppm
	STEL: 1 ppm 15 minutes.
	CA Quebec Provincial (Canada, 1/2014).
	STEV: 2 ppm 15 minutes.
	STEV: 3 mg/m ³ 15 minutes.
	CA Saskatchewan Provincial (Canada,
	7/2013). Skin sensitizer.
	CEIL: 0.3 ppm

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Copper	NOM-010-STPS (Mexico, 4/2016).
	LMPE-PPT: 0.2 mg/m ³ , (as Cu) 8 hours.
	Form: Fumes
	LMPE-PPT: 1 mg/m ³ , (as Cu) 8 hours. Form:
	powder and mist
1,2,4-Trimethylbenzene	NOM-010-STPS (Mexico, 4/2016).
	LMPE-PPT: 25 ppm 8 hours.
Methyl n-Amyl Ketone	NOM-010-STPS (Mexico, 4/2016).
	LMPE-PPT: 50 ppm 8 hours.
Xylene	NOM-010-STPS (Mexico, 4/2016).
	LMPE-CT: 150 ppm 15 minutes.
	LMPE-PPT: 100 ppm 8 hours.
1,3,5-Trimethylbenzene	NOM-010-STPS (Mexico, 4/2016).
	LMPE-PPT: 25 ppm 8 hours.
Mineral Spirits (Odorless)	ACGIH TLV (United States, 3/2016).
	Absorbed through skin.
	TWA: 200 mg/m ³ , (as total hydrocarbon
	vapor) 8 hours.
2-Propanol	NOM-010-STPS (Mexico, 4/2016).
	LMPE-PPT: 200 ppm 8 hours.
	LMPE-CT: 400 ppm 15 minutes.
Ethylbenzene	NOM-010-STPS (Mexico, 4/2016).
	LMPE-PPT: 20 ppm 8 hours.
Dibutyltin Oxide	NOM-010-STPS (Mexico, 4/2016). Absorbed
	through skin.
	LMPE-PPT: 0.1 mg/m ³ , (as Sn) 8 hours.
	LMPE-CT: 0.2 mg/m ³ , (as Sn) 15 minutes.
Formaldehyde (max.)	NOM-010-STPS (Mexico, 4/2016). Skin
	sensitizer.
	LMPE-Pico: 0.3 ppm

Appropriate engineering controls	other engine recommend	eering controls to keep v ded or statutory limits. T st concentrations below	Use process enclosures, worker exposure to airborn he engineering controls al any lower explosive limits.	ne contaminar so need to ke	nts below any ep gas,
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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.
Individual protection measures	
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection :	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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection :	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection :	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: 81°C (177.8°F)
Flash point	: Closed cup: 30°C (86°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 1.44 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 0.7% Upper: 12.7%
Vapor pressure	: 4.4 kPa (33 mm Hg) [at 20°C]
Vapor density	: 2.07 [Air = 1]
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Section 9. Physical and chemical properties

Relative density	: 1.14
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Heat of combustion	: 10.58 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions 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. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
•	LD50 Oral	Rat	5 g/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 mg/kg	-
Dibutyltin Oxide	LD50 Oral	Rat	44900 µg/kg	-
Formaldehyde (max.)	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
5				milligrams	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				microliters	
Xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
	Skin - Moderate irritant	Rabbit		microliters 24 hours 500	
	Skill - Moderate initalit	Rabbit	-	milligrams	-
	Skin - Moderate irritant	Rabbit	_	100 Percent	
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	_
		Rabbit		milligrams	
	Skin - Moderate irritant	Rabbit	_	24 hours 20	_
				milligrams	
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
·				milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Eyes - Mild irritant	Rabbit	-	86 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
		D-b-b-it		milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
Ethylhonzono	Even Severe irritent	Rabbit		milligrams 500	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	milligrams	-
	Skin - Mild irritant	Rabbit	_	24 hours 15	
		Tabbit	-	milligrams	
Dibutyltin Oxide	Skin - Mild irritant	Rabbit	-	24 hours 500	_
		Rabbit		milligrams	
	Eyes - Severe irritant	Rabbit	_	100	_
				milligrams	
Formaldehyde (max.)	Eyes - Mild irritant	Human	-	6 minutes 1	-
				parts per	
				million	
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	750	-
				Micrograms	
	Skin - Mild irritant	Human	-	72 hours 150	-
				Micrograms	
				Intermittent	
	Skin - Severe irritant	Human	-	0.01 Percent	-
	Skin - Mild irritant	Rabbit	-	540	-
	Skip Moderate initest	Dahhit		milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 50 milligrams	-
	Skin - Severe irritant	Rabbit	_	24 hours 2	
			-	milligrams	
				mingrams	

Sensitization

Not available.

Mutagenicity

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Section 11. Toxicological information

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Xylene	-	3	-
2-Propanol	-	3	-
Cumene	-	2B	Reasonably anticipated to be a human carcinogen.
Ethylbenzene	-	2B	-
Formaldehyde (max.)	+	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Methyl n-Amyl Ketone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Light Aromatic Hydrocarbons	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation
1,3,5-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
Mineral Spirits (Odorless)	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Cumene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Dibutyltin Oxide	Category 1	Not determined	Not determined
Formaldehyde (max.)	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Methyl n-Amyl Ketone Light Aromatic Hydrocarbons Xylene Mineral Spirits (Odorless) 2-Propanol Cumene Ethylbenzene Dibutyltin Oxide Formaldehyde (max.)	Category 2 Category 2 Category 2 Category 2 Category 2 Category 2 Category 2 Category 2 Category 1 Category 2	Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined	Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined

Aspiration hazard

Name	Result
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1
Mineral Spirits (Odorless)	ASPIRATION HAZARD - Category 1
Cumene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.	
Potential acute health effe	<u>cts</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: May cause respiratory irritation.	
Skin contact	: May cause an allergic skin reaction.	
Ingestion	: May be fatal if swallowed and enters airway	s.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations	

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

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Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	ffects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
General Carcinogenicity	sensitized, a severe allergic reaction may occur when subsequently exposed to very low
	sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.May cause cancer. Risk of cancer depends on duration and level of exposure.
Carcinogenicity Mutagenicity	 sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards.
Carcinogenicity Mutagenicity Teratogenicity	 sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. May damage the unborn child.

Numerical measures of toxicity Acute toxicity estimates

Route	ATE value
Oral	3874.6 mg/kg
Dermal	36688.5 mg/kg
Inhalation (gases)	166766 ppm
Inhalation (vapors)	137.3 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Copper	Acute EC50 1100 μg/l Fresh water Acute EC50 2.1 μg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling,	4 days 48 hours
	Acute IC50 13 μg/l Fresh water	Weanling) Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 μg/l Marine water Acute LC50 7.56 μg/l Marine water	Crustaceans - Amphipoda - Adult Fish - Periophthalmus waltoni - Adult	48 hours 96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water Chronic NOEC 0.8 µg/l Fresh water	Daphnia - Daphnia magna Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	21 days 6 weeks

Section 12. Ecological information

1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
<i>Y</i> tylone		pugio	10 Houro
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1,3,5-Trimethylbenzene	Acute LC50 13000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 12520 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Mineral Spirits (Odorless)	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
2-Propanol	Acute EC50 929 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella	72 hours
Camono		subcapitata	1 2 mouro
	Acute EC50 7400 μg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 10600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Dibutyltin Oxide	Acute EC50 0.47 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic EC10 0.18 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
Formaldehyde (max.)	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.788 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 5800 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.005 mg/l Marine water	Algae - Isochrysis galbana - Exponential growth phase	96 hours
	Chronic NOEC 953.9 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl n-Amyl Ketone	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
Xylene	-	-	Readily
2-Propanol	-	-	Readily
Ethylbenzene	-	-	Readily

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Bioaccumulative potential

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Section 12. Ecological information				
Product/ingredient name	LogPow	BCF	Potential	
1,2,4-Trimethylbenzene Light Aromatic Hydrocarbons Xylene 1,3,5-Trimethylbenzene Cumene	- - - -	243 10 to 2500 8.1 to 25.9 161 35.48	low high low low low	

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT. Marine pollutant (Copper)
Transport hazard class(es)		3	3	3	
Packing group	111	Ш	ш	111	
Environmental hazards	No.	No.	No.	No.	Yes.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u>

Section 14. Transport information							
							schedules (EmS) F-E, S-E
	ERG No.		ERG No.	ERG	No.		
	128		128	128			
Trancport in b	ulkaccording	mode c suitably prior to respon unloadi substar	er container sizes. of transport (sea, a of for that mode of the shipment, and con- sibility of the person ing dangerous good inces and on all action	ir, etc.) transpo mplianc on offeri ods mus	, does not indi rt. All packagir ce with the app ing the product at be trained or	cate that the prod ng must be review licable regulation t for transport. Pe n all of the risks d	uct is packaged /ed for suitability s is the sole ople loading and
Transport in be to Annex II of I the IBC Code	-	: Not avai	adle.				
		Proper s	hipping name	: 1	Not available.		
		Ship typ	e	: 1	Not available.		
		Pollutio			Not available.		

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

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

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method
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Section 16. Other information

<u>History</u>	
Date of printing	: 6/14/2017
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Version	: 1
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.