# SAFETY DATA SHEET

6 November 2015



Date of issue/Date of revision Version **2** 

Section 1. Identification KSE-STRIPING AND LETTERING ENAMEL **Product name** Product code KSE Other means of Not available. identification Product type Liquid. Relevant identified uses of the substance or mixture and uses advised against Product use **Custom Pinstripe and Artwork** Use of the substance/ Coating. Paints. Painting-related materials. mixture Uses advised against Not applicable. **Supplier Custom Shop** Emergency telephone CHEMTREC (800) 424-9300 number\_ **Technical Phone Number** SUPPORT (858) 909-2110

## 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	<ul> <li>FLAMMABLE LIQUIDS - Category 3</li> <li>SKIN CORROSION/IRRITATION - Category 2</li> <li>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A</li> <li>SKIN SENSITIZATION - Category 1</li> <li>CARCINOGENICITY - Category 2</li> <li>TOXIC TO REPRODUCTION (Fertility) - Category 2</li> <li>TOXIC TO REPRODUCTION (Unborn child) - Category 2</li> <li>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</li> <li>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), hearing organs, kidneys and liver) - Category 1</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 72.2%</li> </ul>

Product name KSE-STRIPING AND LETTERING ENAMEL

# Section 2. Hazards identification

### **GHS label elements** Hazard pictograms



Signal word	Danger
Hazard statements	<ul> <li>Ammable liquid and vapor.</li> <li>Causes serious eye irritation.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of damaging fertility or the unborn child.</li> <li>Suspected of causing cancer.</li> </ul>
	May cause respiratory irritation. May cause drowsiness and dizziness. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, kidneys, liver)
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 o in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	Set 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 ON SKIN (or hair): Take of 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	Add this product only to water. Never add water to this product. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	Prolonged or repeated contact may dry skin and cause irritation.
	United States Page: 2/18

### Section 3. Composition/information on ingredients

Substance/mixture

**Product name** 

Mixture

KSE-STRIPING AND LETTERING ENAMEL

Ingredient name	%	CAS number
	≥25 - <40	1330-20-7
n-butyl acetate	≥11 - <25	123-86-4
2-methoxy-1-methylethyl acetate	≥0.1 - <25	108-65-6
diiron trioxide	≥0.1 - <25	1309-37-1
titanium dioxide	≥0.1 - <25	13463-67-7
Solvent naphtha (petroleum), medium aliph.	≥5 - <25	64742-88-7
Solvent naphtha (petroleum), light aromatic	≥5 - <19	64742-95-6
ethylbenzene	≥1 - <7.9	100-41-4
1,2,4-trimethylbenzene	≥2 - <4	95-63-6
carbon black, respirable powder	≥0.1 - <25	1333-86-4
Aluminium powder (stabilized)	≥0.1 - <25	7429-90-5
barium sulfate	≥0.1 - <25	7727-43-7
IRGAZIN DPP ORANGE 16A	≥0.1 - <25	84632-59-7
aluminium hydroxide	≥0.1 - <25	21645-51-2
Stoddard solvent	≥1 - <25	8052-41-3
zinc sulphide	≥1 - <25	1314-98-3
toluene	≥0.1 - <1	108-88-3
cumene	≥0.1 - <1	98-82-8
2-ethylhexanoic acid, zirconium salt	≥0.1 - <25	22464-99-9

SUB codes represent substances without registered CAS Numbers.

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 or the environment and hence require reporting in this section.

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

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	Remove to fresh air. 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.
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

United States Page
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Date of issue 6 November 2015 Version 2

Product name KSE-STRIPING AND LETTERING ENAMEL

# Section 4. First aid measures

Potential acute health effects	
Eye contact	Zauses serious eye irritation.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	Can cause central nervous system (CNS) depression.
Over-exposure signs/sympton	<u>15</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 nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate medica	l attention and special treatment needed, if necessary
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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)

Date of issue 6 November 2015 Version 2

Product name KSE-STRIPING AND LETTERING ENAMEL

## 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. 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. This material is harmful to aquatic life with long lasting effects. 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 nitrogen oxides sulfur oxides halogenated compounds 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, protective 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 specialised 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).

#### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

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	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 ingest. 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.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. Add this product only to water. Never add water to this product. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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.

# Section 7. Handling and storage

Conditions for safe storage,	Do not store above the following temperature: 35°C (95°F). Store in accordance with
including any incompatibilities	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
incompationnes	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**

Ingredient name	Exposure limits
xylene	ACGIH TLV (United States, 4/2014).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
n-butyl acetate	ACGIH TLV (United States, 4/2014).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 710 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
2-methoxy-1-methylethyl acetate	IPEL (PPG, 4/2009).
	TWA: 50 ppm
diiron trioxide	ACGIH TLV (United States, 4/2014).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 2/2013).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
titanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 4/2014).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
Solvent naphtha (petroleum), medium aliph.	ACGIH TLV (United States).
Solvent haphtha (petroledin), medidin alph.	TWA: 400 ppm
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
Solvent perhthe (petroloum) light gromatic	TWA: 400 mg/m³ 8 hours. None.
Solvent naphtha (petroleum), light aromatic ethylbenzene	
ะแหม่อะเวลิเล	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
1.0.4 trive attends an end	TWA: 100 ppm 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 4/2014).
	United States Page: 7/18

Product name KSE-STRIPING AND LETTERING ENAMEL

# Section 8. Exposure controls/personal protection

	United States Page: 8/18
	TWA: 50 ppm 8 hours.
	TWA: 245 mg/m <sup>3</sup> 8 hours.
	Absorbed through skin.
	OSHA PEL (United States, 2/2013).
	TWA: 50 ppm 8 hours.
cumene	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	ACGIH TLV (United States, 4/2014).
	TWA: 200 ppm 8 hours.
	CEIL: 300 ppm
	AMP: 500 ppm 10 minutes.
toluene	OSHA PEL Z2 (United States, 2/2013).
zinc sulphide	None.
	TWA: 500 ppm 8 hours.
	TWA: 2900 mg/m <sup>3</sup> 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 100 ppm 8 hours.
	TWA: 525 mg/m <sup>3</sup> 8 hours.
Stoddard solvent	ACGIH TLV (United States, 4/2014).
	TWA: 1 mg/m <sup>3</sup>
	ACGIH TLV (United States).
	fraction
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
aluminium hydroxide	ACGIH TLV (United States, 4/2014).
	TWA: 15 mg/m <sup>3</sup> Form: Total dust
	TWA: 5 mg/m <sup>3</sup> Form: Respirable
	OSHA PEL (United States).
	TWA: 5 mg/m <sup>3</sup> Form: Respirable
	TWA: 10 mg/m <sup>3</sup> Form: Inhalable
IRGAZIN DPP ORANGE 16A	ACGIH TLV (United States).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	fraction
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	OSHA PEL (United States, 2/2013).
	fraction
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
barium sulfate	ACGIH TLV (United States, 4/2014).
	dust
	TWA: 15 mg/m <sup>3</sup> , (as Al) 8 hours. Form: Total
	Respirable fraction
	TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hours. Form:
	OSHA PEL (United States, 2/2013).
	fraction
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
aluminium powder (stabilised)	ACGIH TLV (United States, 4/2014).
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
	OSHA PEL (United States, 2/2013).
	fraction
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable
carbon black, respirable powder	ACGIH TLV (United States, 4/2014).
	TWA: 25 ng/m 8 hours.
	TWA: 123 mg/m <sup>3</sup> 8 hours.

Product name KSE-STRIPING AND LETTERING ENAMEL

# Section 8. Exposure controls/personal protection

2-ethylhexanoic acid, zirconium salt		ACGIH TLV (United States, 4/2014). STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes. TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours.
		OSHA PEL (United States, 2/2013). TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours.
	Kay to abbraviations	
C = Ceiling Limit F = Fume IPEL = Internal Permissible Expos OSHA = Occupational Safety and H R = Respirable	overnmental Industrial Hygienists. ure Limit ealth Administration. Subpart Z - Toxic and Hazardous Substances	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
Recommended monitoring procedures	If this product contains ingredients wit atmosphere or biological monitoring m the ventilation or other control measur protective equipment. Reference sho	h exposure limits, personal, workplace hay be required to determine the effectiveness of res and/or the necessity to use respiratory uld be made to appropriate monitoring standards. nents for methods for the determination of juired.
Appropriate engineering controls	other engineering controls to keep wo recommended or statutory limits. The	se process enclosures, local exhaust ventilation or rker exposure to airborne contaminants below any e engineering controls also need to keep gas, by lower explosive limits. Use explosion-proof
Environmental exposure controls	they comply with the requirements of e	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process equipment to acceptable levels.
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoro eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing should no	d to remove potentially contaminated clothing. of be allowed out of the workplace. Wash Ensure that eyewash stations and safety
Eye/face protection <u>Skin protection</u>	Chemical splash goggles.	
Hand protection Gloves	worn at all times when handling chemine necessary. Considering the parameter during use that the gloves are still retain noted that the time to breakthrough for	complying with an approved standard should be ical products if a risk assessment indicates this is ers specified by the glove manufacturer, check ining their protective properties. It should be r any glove material may be different for different nixtures, consisting of several substances, the e accurately estimated.

# Section 8. Exposure controls/personal protection

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	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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	>37.78°C (>100°F)
Flash point	Closed cup: 27.22°C (81°F)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Flammability (solid, gas)	Not available.
Lower and upper explosive (flammable) limits	Not available.
Evaporation rate	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.13
Density(lbs / gal)	9.43
Solubility	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	Not available.
Viscosity	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	64% (v/v), 56% (w/w)
% Solid. (w/w)	44.29

Physical property values shown in this section are calculated averages. For specific product information, contact your PPG Sales Representative.

## 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	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
-	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
diiron trioxide	LD50 Oral	Rat	10 g/kg	-
titanium dioxide	LD50 Oral	Rat	>10 g/kg	-
Solvent naphtha (petroleum), medium aliph.	LD50 Dermal	Rabbit	>3000 mg/kg	-
·	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
•	LD50 Oral	Rat	8400 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	4000 ppm	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5 g/kg	-
carbon black, respirable	LD50 Dermal	Rabbit	>3 g/kg	-
powder				
	LD50 Oral	Rat	>15400 mg/kg	-
			United States	Page: 11/18

Product name KSE-STRIPING AND LETTERING ENAMEL

### Section 11. Toxicological information

<b>IRGAZIN DPP ORANGE 16A</b>	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	636 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	1400 mg/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt				
	LD50 Oral	Rat	>5 g/kg	-

There are no data available on the mixture itself.

Irritation/Corrosion	
Conclusion/Summary	
Skin	There are no data available on the mixture itself.
Eyes	There are no data available on the mixture itself.
Respiratory	There are no data available on the mixture itself.
Sensitization	
Conclusion/Summary	
Skin	There are no data available on the mixture itself.
Respiratory	There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
Conclusion/Summary	There are no data available on the mixture itself.

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**Conclusion/Summary** 

Product/ingredient name	OSHA	IARC	NTP
xylene	-	3	-
diiron trioxide	-	3	-
titanium dioxide	-	2B	-
ethylbenzene	-	2B	-
carbon black, respirable	-	2B	-
powder			
toluene	-	3	-
cumene	-	2B	Reasonably anticipated to be a human carcinogen.

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### **Reproductive toxicity**

**Conclusion/Summary** 

There are no data available on the mixture itself.

**Teratogenicity** 

### Product name KSE-STRIPING AND LETTERING ENAMEL

### Section 11. Toxicological information

**Conclusion/Summary** There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

Name	Category
<b>K</b> lene	Category 3
n-butyl acetate	Category 3
Solvent naphtha (petroleum), medium aliph.	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
1,2,4-trimethylbenzene	Category 3
toluene	Category 3
cumene	Category 3

#### Specific target organ toxicity (repeated exposure)

Name	Category
xylene Solvent naphtha (petroleum), medium aliph. ethylbenzene Stoddard solvent toluene cumene	Category 2 Category 1 Category 2 Category 1 Category 2 Category 2 Category 2

#### Target organs

Contains material which causes damage to the following organs: brain, skin, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, ears, testes.

#### Aspiration hazard

Name	Result
Solvent naphtha (petroleum), medium aliph. Solvent naphtha (petroleum), light aromatic ethylbenzene Stoddard solvent toluene cumene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	Zauses serious eye irritation.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation.
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness

United States Page: 13/18

# Section 11. Toxicological information

Inhalation	Adverse symptoms may include the following: respiratory tract irritation
	coughing
	nausea or vomiting
	headache
	drowsiness/fatigue
	dizziness/vertigo
	unconsciousness reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	Adverse symptoms may include the following:
	irritation
	redness
	dryness cracking
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
elayed and immediate effects Conclusion/Summary	and also chronic effects from short and long term exposure There are no data available on the mixture itself. Exposure to component solvent vapo
	concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure	
Potential immediate effects	There are no data available on the mixture itself.
Potential delayed effects	There are no data available on the mixture itself.
Long term exposure	
Potential immediate	There are no data available on the mixture itself.
effects	
Potential delayed effects	There are no data available on the mixture itself.
Potential chronic health effect	<u>s</u>
General	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
	very low levels.

United States Page: 14/18

Date of issue 6 November 2015 Version 2

### Product name KSE-STRIPING AND LETTERING ENAMEL

## Section 11. Toxicological information

Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of
	exposure.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	Suspected of damaging the unborn child.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	Suspected of damaging fertility.
Numerical measures of toxicity	

Acute toxicity estimates

Route	ATE value	
Oral	14014.7 mg/kg	
Dermal	4834.7 mg/kg	
Inhalation (gases)	21640.8 ppm	
Inhalation (vapors)	40.93 mg/l	
Inhalation (dusts and mists)	5.41 mg/l	

# Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
2-methoxy-1-methylethyl acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
titanium dioxide ethylbenzene	Acute LC50 >100 mg/l Fresh water Acute LC50 150 to 200 mg/l Fresh water	Daphnia - Daphnia magna Fish - Lepomis macrochirus - Young of the year	48 hours 96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene	-	-	Readily Readily
toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
2-methoxy-1-methylethyl acetate	0.56	-	low
ethylbenzene	3.15	79.43	low
1,2,4-trimethylbenzene	3.63	120.23	low
Stoddard solvent	3.16 to 7.06	-	high
toluene	2.73	8.32	low
cumene	3.66	35.48	low

#### Mobility in soil

United States	Page: 15/18

Date of issue 6 November 2015 Version 2

Product name KSE-STRIPING AND LETTERING ENAMEL

### Section 12. Ecological information

Soil/water partition coefficient (Koc)

Not available.

### 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.

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. Section 6. Accidental release measures

	DOT	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	111	Ш	111	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (Ibs)	269.48	Not applicable.	Not applicable.	
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.	

### 14. Transport information

#### Additional information

DOT	Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	None identified.
ΙΑΤΑ	None identified.

Date of issue 6 November 2015 Version 2

Product name KSE-STRIPING AND LETTERING ENAMEL

### 14. Transport information

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Section 15. Regulatory information

#### United States

United States inventory (TSCA 8b) : All components are listed or exempted.

#### SARA 302/304

SARA 304 RQ Not applicable.

**Composition/information on ingredients** 

No products were found.

#### SARA 311/312

Classification

Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

#### **Composition/information on ingredients**

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
<b>x</b> ylene	Yes.	No.	No.	Yes.	Yes.
n-butyl acetate	Yes.	No.	No.	Yes.	No.
2-methoxy-1-methylethyl acetate	Yes.	No.	No.	No.	No.
titanium dioxide	No.	No.	No.	No.	Yes.
Solvent naphtha (petroleum), medium aliph.	Yes.	No.	No.	Yes.	Yes.
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.
ethylbenzene	Yes.	No.	No.	Yes.	Yes.
1,2,4-trimethylbenzene	Yes.	No.	No.	Yes.	No.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.
aluminium powder (stabilised)	Yes.	No.	No.	No.	No.
IRGAZIN DPP ORANGE 16A	Yes.	No.	No.	No.	No.
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.
zinc sulphide	No.	No.	No.	Yes.	No.
toluene	Yes.	No.	No.	Yes.	Yes.
cumene	Yes.	No.	No.	Yes.	Yes.
2-ethylhexanoic acid, zirconium salt	Yes.	No.	No.	No.	Yes.

### <u>SARA 313</u>

	Chemical name	CAS number	<b>Concentration</b>
Supplier notification	xylene	1330-20-7	15 - 40
	ethylbenzene	100-41-4	5 - 10
	1,2,4-trimethylbenzene	95-63-6	1 - 5
	Aluminium powder (stabilized)	7429-90-5	1 - 5
	zinc sulphide	1314-98-3	0.5 - 1.5

United States	Page: 17/18

### Product name KSE-STRIPING AND LETTERING ENAMEL

### Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### 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.

### Section 16. Other information

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

Health : 2 \* Flammability : 3 Physical hazards : 0 (\*) - Chronic effects

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 MSDSs 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.

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

National Fire Protection Association (U.S.A.)

Health : 2 Flammabil
Date of previous issue
Organization that prepared the SDS
Key to abbreviations

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Custom Shop, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.