SAFETY DATA SHEET

Date of issue/Date of revision 15 November 2016
Version 13

Section 1. Identification

Product name : Universal Basecoat
Product code : DBU-4
Other means of identification : Not available.
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.
Use of the substance/ mixture : Coating. Paints. Painting-related materials.
Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.
One PPG Place,
Pittsburgh, PA 15272
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)
Technical Phone Number : (740) 363-9610 (DELAWARE, OH) 8:00 a.m. - 5:00 p.m. EST

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 2
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION (Unborn child) - Category 1A
TOXIC TO REPRODUCTION (Fertility) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), hearing organs, kidneys, liver) - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

GHS label elements

Section 2. Hazards identification

Hazard pictograms :

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
Causes serious eye irritation.
Causes skin irritation.
May cause cancer.
May damage the unborn child.
Suspected of damaging fertility.
May cause respiratory irritation.
May cause drowsiness or 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 or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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 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. Take off contaminated clothing and wash it before reuse. If skin irritation 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 : Sanding and grinding dusts may be harmful if inhaled. Dried Film of This Paint May Be Harmful If Eaten or Chewed. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses. 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. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. NTP, IARC and OSHA have classified chromium (+6) compounds as carcinogenic. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE

Section 2. Hazards identification

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.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : Universal Basecoat

Ingredient name	%	CAS number
n-butyl acetate	≥90	123-86-4
titanium dioxide	≥50 - ≤75	13463-67-7
toluene	≥50 - ≤75	108-88-3
2-methoxy-1-methylethyl acetate	≥20 - ≤50	108-65-6
diiron trioxide	≥20 - ≤50	1309-37-1
Aluminium powder (stabilized)	≥20 - ≤50	7429-90-5
butanone	≥20 - ≤50	78-93-3
glass, oxide, chemicals	≥20 - ≤50	65997-17-3
Lead chromate molybdate sulfate red	≥20 - ≤50	12656-85-8
Lead sulfochromate yellow	≥20 - ≤50	1344-37-2
Mica-group minerals	≥10 - ≤20	12001-26-2
Ligroine	≥10 - ≤20	8032-32-4
xylene	≥10 - ≤20	1330-20-7
4-methylpentan-2-one	≥5.0 - ≤10	108-10-1
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	64742-95-6
zirconium dioxide	≥5.0 - ≤10	1314-23-4
Stoddard solvent	≥5.0 - ≤10	8052-41-3
Natural graphite	≥5.0 - ≤10	7782-42-5
ethyl acetate	≥5.0 - ≤10	141-78-6
acetone	≥1.0 - ≤5.0	67-64-1
Naphtha (petroleum), heavy alkylate	≥1.0 - ≤5.0	64741-65-7
tin dioxide	≥1.0 - ≤5.0	18282-10-5
Isopropyl alcohol	≥1.0 - ≤5.0	67-63-0
benzyl butyl phthalate	≥1.0 - ≤5.0	85-68-7
Naphtha (petroleum), hydrotreated heavy	≥1.0 - ≤5.0	64742-48-9
carbon black, respirable powder	≥1.0 - ≤5.0	1333-86-4
Solvent naphtha (petroleum), light aliph.	≥1.0 - ≤5.0	64742-89-8
barium sulfate	≥1.0 - ≤5.0	7727-43-7
ethylbenzene	≥1.0 - ≤5.0	100-41-4
ammonium iron(3+) hexakis(cyano-C)ferrate(4-)	≥1.0 - ≤5.0	25869-00-5
[1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato(2-)-N,O,O']copper	≥1.0 - ≤5.0	15680-42-9
proprietary substituted quinacridone	≥1.0 - ≤5.0	Not available.
2-butoxyethanol	≥1.0 - ≤4.7	111-76-2
aluminium hydroxide	≥1.0 - ≤5.0	21645-51-2
antimony trioxide	<1.0	1309-64-4
Nickel Compound	<1.0	Not available.
Naphthenic acids, nickel salts	<1.0	61788-71-4
2-methoxypropyl acetate	<1.0	70657-70-4
lead	<0.10	7439-92-1

Section 3. Composition/information on ingredients

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

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

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

Section 4. First aid measures

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 medical 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)

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 : Highly 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 very toxic 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

Section 5. Fire-fighting measures

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 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 containment 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 : Put on appropriate personal protective equipment (see Section 8). 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. 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.

Special precautions : Ingestion of product or cured coating may be harmful. 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. Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children. Do not apply on exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings, to which children may be commonly exposed. 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. 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.

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

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
n-butyl acetate	**ACGIH TLV (United States, 3/2015).** STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 710 mg/m³ 8 hours. TWA: 150 ppm 8 hours.
titanium dioxide	**OSHA PEL (United States, 2/2013).** TWA: 15 mg/m³ 8 hours. Form: Total dust **ACGIH TLV (United States, 3/2015).** TWA: 10 mg/m³ 8 hours.
toluene	**OSHA PEL Z2 (United States, 2/2013).** AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. **ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours.
2-methoxy-1-methylethyl acetate	**IPEL (PPG, 4/2009).** TWA: 50 ppm
diiron trioxide	**ACGIH TLV (United States, 3/2015).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction **OSHA PEL (United States, 2/2013).** TWA: 10 mg/m³ 8 hours.
aluminium powder (stabilised)	**ACGIH TLV (United States, 3/2015).** TWA: 1 mg/m³ 8 hours. Form: Respirable fraction **OSHA PEL (United States, 2/2013).** TWA: 5 mg/m³, (as Al) 8 hours. Form: Respirable fraction TWA: 15 mg/m³, (as Al) 8 hours. Form: Total dust
butanone	**ACGIH TLV (United States, 3/2015).** STEL: 885 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 590 mg/m³ 8 hours. TWA: 200 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 590 mg/m³ 8 hours. TWA: 200 ppm 8 hours.
glass, oxide, chemicals	**OSHA PEL (United States).** TWA: 15 mg/m³ TWA: 5 mg/m³ Form: Respirable TWA: 15 mg/m³ Form: Total dust **ACGIH TLV (United States).** TWA: 1 f/cc Form: Continuous filament glass fibers TWA: 5 mg/m³, (Inhalable) Form: Continuous filament glass fibers TWA: 3 mg/m³ Form: Respirable TWA: 10 mg/m³ Form: Total dust **ACGIH TLV (United States, 3/2015).**

Section 8. Exposure controls/personal protection

	TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction TWA: 1 f/cc 8 hours. Form: Respirable fibers: length greater than 5 uM; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination.
Lead chromate molybdate sulfate red	**ACGIH TLV (United States, 3/2015).** TWA: 10 mg/m³, (as Mo) 8 hours. Form: Inhalable fraction TWA: 3 mg/m³, (as Mo) 8 hours. Form: Respirable fraction TWA: 0.05 mg/m³, (measured as Cr) 8 hours. Form: Soluble TWA: 0.05 mg/m³, (as Pb) 8 hours. **ACGIH TLV (United States).** TWA: 3 mg/m³ Form: Respirable TWA: 0.05 mg/m³ Form: Total dust **OSHA PEL (United States, 2/2013).** TWA: 15 mg/m³, (as Mo) 8 hours. Form: Total dust TWA: 0.005 mg/m³, (as Cr) 8 hours. TWA: 50 µg/m³, (as Pb) 8 hours. **OSHA PEL Z2 (United States, 2/2013).** CEIL: 1 mg/10m³ **OSHA PEL (United States).** TWA: 10 mg/m³ TWA: 50 µg/m³
Lead sulfochromate yellow	**OSHA PEL (United States).** CEIL: 0.1 mg/m³ Form: TWA: 5 mg/m³ TWA: 50 µg/m³ **ACGIH TLV (United States, 3/2015).** TWA: 0.05 mg/m³, (as Pb) 8 hours. TWA: 0.05 mg/m³, (measured as Cr) 8 hours. Form: Soluble **ACGIH TLV (United States).** : 0.05 mg/m³, () Form: Total dust **OSHA PEL (United States, 2/2013).** TWA: 0.005 mg/m³, (as Cr) 8 hours. TWA: 50 µg/m³, (as Pb) 8 hours. **OSHA PEL Z2 (United States, 2/2013).** CEIL: 1 mg/10m³
Mica-group minerals	**ACGIH TLV (United States, 3/2015).** TWA: 3 mg/m³ 8 hours. Form: Respirable fraction **OSHA PEL Z3 (United States, 2/2013).** TWA: 20 mppcf 8 hours.
Ligroine	None.
xylene	**ACGIH TLV (United States, 3/2015).** STEL: 651 mg/m³ 15 minutes.

Section 8. Exposure controls/personal protection

	STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
4-methylpentan-2-one	**ACGIH TLV (United States, 3/2015).** STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 410 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
zirconium dioxide	**ACGIH TLV (United States, 3/2015).** STEL: 10 mg/m³, (as Zr) 15 minutes. TWA: 5 mg/m³, (as Zr) 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 5 mg/m³, (as Zr) 8 hours. **OSHA PEL (United States).** STEL: 10 mg/m³, (as Zr) TWA: 5 mg/m³, (as Zr)
Stoddard solvent	**ACGIH TLV (United States, 3/2015).** TWA: 525 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 2900 mg/m³ 8 hours. TWA: 500 ppm 8 hours.
Natural graphite	**OSHA PEL (United States).** TWA: 5 mg/m³ Form: Respirable TWA: 10 mg/m³ **ACGIH TLV (United States, 3/2015).** TWA: 2 mg/m³ 8 hours. Form: Respirable fraction **OSHA PEL Z3 (United States, 2/2013).** TWA: 15 mppcf 8 hours.
ethyl acetate	**ACGIH TLV (United States, 3/2015).** TWA: 1440 mg/m³ 8 hours. TWA: 400 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 1400 mg/m³ 8 hours. TWA: 400 ppm 8 hours.
acetone	**ACGIH TLV (United States, 3/2015).** STEL: 500 ppm 15 minutes. TWA: 250 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 2400 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
Naphtha (petroleum), heavy alkylate	None.
tin dioxide	**ACGIH TLV (United States, 3/2015).** TWA: 2 mg/m³, (as Sn) 8 hours. **OSHA PEL (United States).** TWA: 2 mg/m³ Form: Total dust

Section 8. Exposure controls/personal protection

	TWA: 2 mg/m³
Isopropyl alcohol	**ACGIH TLV (United States, 3/2015).** STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 980 mg/m³ 8 hours. TWA: 400 ppm 8 hours.
benzyl butyl phthalate	None.
Naphtha (petroleum), hydrotreated heavy	None.
carbon black, respirable powder	**ACGIH TLV (United States, 3/2015).** TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction **OSHA PEL (United States, 2/2013).** TWA: 3.5 mg/m³ 8 hours.
Solvent naphtha (petroleum), light aliph.	None.
barium sulfate	**ACGIH TLV (United States, 3/2015).** TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction **OSHA PEL (United States, 2/2013).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
ethylbenzene	**ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
ammonium iron(3+) hexakis(cyano-C)ferrate(4-)	**ACGIH TLV (United States, 3/2015).** TWA: 1 mg/m³, (as Fe) 8 hours. C: 5 mg/m³ **OSHA PEL (United States, 2/2013).** **Absorbed through skin.** TWA: 5 mg/m³, (as CN) 8 hours.
[1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato(2-)-N,O,O']copper	None.
proprietary substituted quinacridone	**ACGIH TLV (United States).** TWA: 10 mg/m³, (Dusts and mists) Form: Inhalable fraction TWA: 3 mg/m³, (Dusts and mists) Form: Respirable fraction
2-butoxyethanol	**ACGIH TLV (United States, 3/2015).** TWA: 20 ppm 8 hours. **OSHA PEL (United States, 2/2013).** **Absorbed through skin.** TWA: 240 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
aluminium hydroxide	**ACGIH TLV (United States, 3/2015).** TWA: 1 mg/m³ 8 hours. Form: Respirable fraction **ACGIH TLV (United States).** TWA: 1 mg/m³
antimony trioxide	**ACGIH TLV (United States, 3/2015).** TWA: 0.5 mg/m³, (as Sb) 8 hours.

Section 8. Exposure controls/personal protection

	OSHA PEL (United States, 2/2013). TWA: 0.5 mg/m³, (as Sb) 8 hours. **OSHA PEL (United States).** TWA: 0.5 mg/m³, (as Sb)
Nickel Compound	**ACGIH TLV (United States).** TWA: 0.2 mg/m³ Form: Total dust TWA: 0.2 mg/m³ **OSHA PEL (United States).** TWA: 1 mg/m³, (as Ni) TWA: 1 mg/m³, (as Ni) Form: Total dust
Naphthenic acids, nickel salts	**OSHA PEL (United States).** TWA: 1 mg/m³, (as Ni) TWA: 1 mg/m³, (as Ni) Form: Total dust **ACGIH TLV (United States).** TWA: 0.2 mg/m³ Form: Total dust **OSHA PEL (United States, 2/2013).** TWA: 1 mg/m³, (as Ni) 8 hours.
2-methoxypropyl acetate	None.
lead	**ACGIH TLV (United States, 3/2015).** TWA: 0.05 mg/m³, (as Pb) 8 hours. **OSHA PEL (United States, 2/2013).** TWA: 50 µg/m³, (as Pb) 8 hours. **OSHA PEL (United States).** TWA: 50 µg/m³

Key to abbreviations

A	=	Acceptable Maximum Peak	S	=	Potential skin absorption
ACGIH	=	American Conference of Governmental Industrial Hygienists.	SR	=	Respiratory sensitization
C	=	Ceiling Limit	SS	=	Skin sensitization
F	=	Fume	STEL	=	Short term Exposure limit values
IPEL	=	Internal Permissible Exposure Limit	TD	=	Total dust
OSHA	=	Occupational Safety and Health Administration.	TLV	=	Threshold Limit Value
R	=	Respirable	TWA	=	Time Weighted Average
Z	=	OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances			

Consult local authorities for acceptable exposure limits.

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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls : 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.

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

Section 8. Exposure controls/personal protection

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.

Eye/face 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.

Gloves : For prolonged or repeated handling, use the following type of gloves:

Recommended: polyvinyl alcohol (PVA), Viton®, Chloroprene, nitrile rubber, PVC, natural rubber (latex), butyl rubber

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

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: -2.78°C (27°F)

Material supports combustion. : Yes.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits : Not available.

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.04

Density (lbs / gal) : 8.68

Solubility : Insoluble in the following materials: cold water.

Partition coefficient: n-octanol/water : Not available.

Viscosity : Kinematic (40°C (104°F)): >0.21 cm^2/s (>21 cSt)

Volatility : 67% (v/v), 57% (w/w)

% Solid. (w/w) : 42.61

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

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
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	-
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	636 mg/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	-
butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Lead sulfochromate yellow	LD50 Oral	Rat	1.2 g/kg	-
Ligroine	LC50 Inhalation Gas.	Rat	3400 ppm	4 hours
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	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	32772 mg/m³	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
ethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m³	4 hours
	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Oral	Rat	1.8 g/kg	-
tin dioxide	LD50 Oral	Rat	>20 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	4.396 g/kg	-
benzyl butyl phthalate	LC50 Inhalation Vapor	Rat	>6700 mg/m³	4 hours
	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Dermal	Rat	6700 mg/kg	-
	LD50 Oral	Rat	2.33 g/kg	-
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapor	Rat	8500 mg/m³	4 hours
	LD50 Oral	Rat	>6 g/kg	-
carbon black, respirable powder	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 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-hydroxyphenyl)imino]	LC50 Inhalation Dusts and mists	Rat	>1000 mg/m³	4 hours

Section 11. Toxicological information

methyl]-2-naphtholato(2-)-N, O,O']copper				
2-butoxyethanol	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
2-methoxypropyl acetate	LC50 Inhalation Vapor	Rat	>5320 ppm	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	8532 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

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

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

Carcinogenicity

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

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
toluene	-	3	-
diiron trioxide	-	3	-
glass, oxide, chemicals	-	3	-
Lead chromate molybdate sulfate red	+	1	Reasonably anticipated to be a human carcinogen.
Lead sulfochromate yellow	+	1	Reasonably anticipated to be a human carcinogen.
xylene	-	3	-
4-methylpentan-2-one	-	2B	-
Isopropyl alcohol	-	3	-
benzyl butyl phthalate	-	3	-
carbon black, respirable powder	-	2B	-
ethylbenzene	-	2B	-
2-butoxyethanol	-	3	-
antimony trioxide	-	2B	-
Nickel Compound	+	1	Known to be a human carcinogen.
Naphthenic acids, nickel salts	-	1	Known to be a human carcinogen.

Carcinogen Classification code:

Section 11. Toxicological information

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

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

Specific target organ toxicity (single exposure)

Name	Category
n-butyl acetate	Category 3
toluene	Category 3
butanone	Category 3
xylene	Category 3
4-methylpentan-2-one	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
ethyl acetate	Category 3
acetone	Category 3
Isopropyl alcohol	Category 3
Naphtha (petroleum), hydrotreated heavy	Category 3
Solvent naphtha (petroleum), light aliph.	Category 3
2-methoxypropyl acetate	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
toluene	Category 2
Lead chromate molybdate sulfate red	Category 2
Lead sulfochromate yellow	Category 2
xylene	Category 2
Stoddard solvent	Category 1
ethylbenzene	Category 2
antimony trioxide	Category 2

Target organs : Contains material which causes damage to the following organs: brain, central nervous system (CNS), eye, lens or cornea.
Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, mucous membranes, heart, spleen, digestive system, lymphatic system, peripheral nervous system, gastrointestinal tract, cardiovascular system, upper respiratory tract, skin, bone marrow, ears, nose/ sinuses, testes, thyroid.

Aspiration hazard

Section 11. Toxicological information

Name	Result
toluene	ASPIRATION HAZARD - Category 1
Ligroine	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), heavy alkylate	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aliph.	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

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

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

Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself. Contains lead. Exposure to lead dust and fumes adversely affects blood and blood forming tissues, kidneys, liver, the central/peripheral nervous systems and male/female reproductive organs. Lead exposure causes adverse developmental effects including brain damage in children and unborn fetuses. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Exposure to component solvent vapor 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 effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

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.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : May damage 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	6118.5 mg/kg
Dermal	49460.7 mg/kg
Inhalation (gases)	75093.8 ppm
Inhalation (vapors)	188.8 mg/l
Inhalation (dusts and mists)	41.92 mg/l

Section 12. Ecological information

Toxicity

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

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
n-butyl acetate	1.78	-	low
toluene	2.73	8.32	low
2-methoxy-1-methylethyl acetate	0.56	-	low
butanone	0.29	-	low
xylene	3.16	7.4 to 18.5	low
4-methylpentan-2-one	1.31	-	low
Stoddard solvent	3.16 to 7.06	-	high
ethyl acetate	0.73	-	low
acetone	-0.24	3	low
Isopropyl alcohol	0.05	-	low
benzyl butyl phthalate	4.73	16.22	low
ethylbenzene	3.15	79.43	low
2-butoxyethanol	0.81	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Section 13. Disposal considerations

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

14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated.	UN3077	UN3077
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead chromate molybdate sulfate red, Lead sulfochromate yellow)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead chromate molybdate sulfate red, Lead sulfochromate yellow)
Transport hazard class (es)	-	9	9
Packing group	-	III	III
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(Lead chromate molybdate sulfate red, Lead sulfochromate yellow)	Not applicable.
Product RQ (lbs)	764.72	Not applicable.	Not applicable.
RQ substances	(xylene, toluene)	Not applicable.	Not applicable.

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 : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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.

United States - TSCA 5(a)2 - Proposed significant new use rules:
Lead chromate molybdate sulfate red — Listed

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
n-butyl acetate	Yes.	No.	No.	Yes.	No.
titanium dioxide	No.	No.	No.	No.	Yes.
toluene	Yes.	No.	No.	Yes.	Yes.
2-methoxy-1-methylethyl acetate	Yes.	No.	No.	No.	No.
aluminium powder (stabilised)	Yes.	No.	No.	No.	No.
butanone	Yes.	No.	No.	Yes.	No.
Lead chromate molybdate sulfate red	No.	No.	No.	No.	Yes.
Lead sulfochromate yellow	No.	No.	No.	Yes.	Yes.
Ligroine	Yes.	No.	No.	Yes.	No.
xylene	Yes.	No.	No.	Yes.	Yes.
4-methylpentan-2-one	Yes.	No.	No.	Yes.	Yes.
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.
Natural graphite	Yes.	No.	No.	No.	No.
ethyl acetate	Yes.	No.	No.	Yes.	No.
acetone	Yes.	No.	No.	Yes.	No.
Naphtha (petroleum), heavy alkylate	Yes.	No.	No.	Yes.	No.
Isopropyl alcohol	Yes.	No.	No.	Yes.	No.
benzyl butyl phthalate	No.	No.	No.	Yes.	Yes.
Naphtha (petroleum), hydrotreated heavy	Yes.	No.	No.	Yes.	No.
carbon black, respirable powder	Yes.	No.	No.	No.	Yes.
Solvent naphtha (petroleum), light	No.	No.	No.	Yes.	No.

Section 15. Regulatory information

aliph.					
ethylbenzene	Yes.	No.	No.	Yes.	Yes.
[1-[[(2-hydroxyphenyl)imino]methyl] -2-naphtholato(2-)-N,O,O']copper	Yes.	No.	No.	Yes.	No.
proprietary substituted quinacridone	Yes.	No.	No.	No.	No.
2-butoxyethanol	Yes.	No.	No.	Yes.	No.
antimony trioxide	No.	No.	No.	No.	Yes.
Nickel Compound	No.	No.	No.	Yes.	Yes.
Naphthenic acids, nickel salts	No.	No.	No.	Yes.	Yes.
2-methoxypropyl acetate	Yes.	No.	No.	Yes.	Yes.

SARA 313

Supplier notification :

Chemical name	CAS number	Concentration
toluene	108-88-3	30 - 60
Aluminium powder (stabilized)	7429-90-5	10 - 30
Lead chromate molybdate sulfate red	12656-85-8	10 - 30
Lead sulfochromate yellow	1344-37-2	10 - 30
xylene	1330-20-7	10 - 30
4-methylpentan-2-one	108-10-1	5 - 10
Isopropyl alcohol	67-63-0	1 - 5
ethylbenzene	100-41-4	1 - 5
[1-[[(2-hydroxyphenyl)imino]methyl]-2-naphtholato (2-)-N,O,O']copper	15680-42-9	1 - 5
2-butoxyethanol	111-76-2	1 - 5
antimony trioxide	1309-64-4	0.1 - 1
Naphthenic acids, nickel salts	61788-71-4	0.1 - 1

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.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

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 : 3 * **Flammability** : 3 **Physical hazards** : 1

(*) - 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 : 3 **Flammability** : 3 **Instability** : 1

Date of previous issue : **4/19/2016**

Organization that prepared the MSDS : EHS

Section 16. Other information

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 = Intermediate 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

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 PPG, 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.