

# SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2023.

Date of issue/Date of revision 9 February 2026

Version 1.04

## Section 1. Identification

**Product name** : SIGMARINE 48 BLACK 8000  
**Product code** : 000010023591  
**Other means of identification** : 00393181; 00393220 ; 30013466  
**Product type** : Liquid.

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

**Product use** : Professional applications, Used by spraying.  
**Use of the substance/ mixture** : Coating.  
**Uses advised against** : Not applicable.

**Supplier** : PPG Canada Inc.  
5676 Timberlea Blvd  
Mississauga ON L4W 4M6  
Canada  
+1 905-629-7999

PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272

**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
SETIQ Interior de la República: 800-00-214-00 (México)  
SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number** : 888-977-4762

## Section 2. Hazard identification

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
CARCINOGENICITY - Category 1B  
TOXIC TO REPRODUCTION - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
Health Hazards Not Otherwise Classified - Category 1

### GHS label elements

## Section 2. Hazard identification

**Hazard pictograms**

:

**Signal word**

: Danger

**Hazard statements**

: Combustible liquid.  
Causes skin irritation.  
Harmful if inhaled.  
May cause drowsiness or dizziness.  
May cause cancer.  
May damage fertility or the unborn child.  
Causes damage to organs through prolonged or repeated exposure. (hearing organs)  
Prolonged or repeated contact may dry skin and cause irritation.

**Precautionary statements****Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

**Response**

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

**Storage**

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

**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. 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.

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 52.6% (oral), 54% (dermal), 93.5% (inhalation)

## Section 3. Composition/information on ingredients

**Substance/mixture**

: Mixture

**Product name**

: SIGMARINE 48 BLACK 8000

**Other means of identification**

: 00393181; 00393220 ; 30013466

**CAS number/other identifiers**

## Section 3. Composition/information on ingredients

| Ingredient name                              | Synonyms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | % (w/w)    | CAS number |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| Naphtha (petroleum), hydrodesulfurized heavy | naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha; Naphtha, petroleum, hydrodesulfurized heavy; naphtha (petroleum), hydrodesulfurized heavy, as light oils; low boiling point hydrogen treated naphtha, as light oils; Naphtha, (petroleum), heavy, hydrodesulfurized; ALIPHATIC HYDROCARBON; NAPHTHA (PETROLEUM), HYDROGENSULFURIZED HEAVY; OILS, NAPHTHA, HYDRODESULFURIZED HEAVY; Naphtha (petroleum), hydrodesulfurized heavy, Low boiling point hydrogen treated naphtha; Naphtha (petroleum), hydrodesulfurised heavy | 15 - 40    | 64742-82-1 |
| Calcite                                      | Calcite (Ca(CO <sub>3</sub> )); Calcite, nanoparticles; Lceland spar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 - 10*    | 13397-26-7 |
| 2-ethylhexanoic acid, zirconium salt         | Hexanoic acid, 2-ethyl-, zirconium salt (1:?) ; Hexanoic acid, 2-ethyl-, zirconium salt; Zirconium 2-ethylhexanoate; Zirconium salt of 2-ethylhexanoic acid; Aliphatic monocarboxylic acid (C <sub>6</sub> -28) salt (Pb, Cu, Mn, Zn, Zr, Ce, Cd, Sn, Sr, Co); 2-Ethylhexanoic acid zirconium salt; HEXANOATE, 2-ETHYL-, ZIRCONIUM; ZIRCONIUM OCTOATE; Zirconium 2-ethylhexanoate (component unspecified)                                                                                                                                                            | 0.5 - 1.5* | 22464-99-9 |
| carbon black                                 | Lampblack; Acetylene black; C.I. 77266; C.I. Pigment Black 6; C.I. Pigment Black 7; Charcoal                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.5 - 1.5* | 1333-86-4  |
| xylene                                       | Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); Benzene, dimethyl-;; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene                                                                                                                                  | 0.5 - 1.5* | 1330-20-7  |
| ethylbenzene                                 | Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of                                                                                                                                                                                                                                                                                                              | 0.5 - 1.5* | 100-41-4   |

### Section 3. Composition/information on ingredients

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                |          |            |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
| 2-butanone oxime                  | ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropylloxycarbonyl or chloropropylloxycarbonyl) benzene                                                                                                                                                                                                                                                                                       | 0.1 - 1* | 96-29-7    |
| calcium bis(2-ethylhexanoate)     | butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime; 2-Butanone, oxime; METHYL ETHYL KETOXIME; METHYL ETHYL KETONE OXIME; MEKO; Butan-2-one oxime; Methyl alkyl (C2-4) ketoxime; Methyl ethyl ketoxim; 2-Butanonoxime                                                                                                                                                                                             | 0.1 - 1* | 136-51-6   |
| 2-ethylhexanoic acid, cobalt salt | Hexanoic acid, 2-ethyl-, calcium salt (2:1); Hexanoic acid, 2-ethyl-, calcium salt; Calcium 2-ethylhexanoate; calcium 2-ethylhexoate; Hexanoic acid, 2-ethyl-, calcium salt; Aliphatic monocarboxylic acid (C6-28) light metal salt (Na,K,Li,Ba, Mg,Ca); 2-ETHYLHEXANOIC ACID CALCIUM SALT; HEXANOATE, ETHYL-, CALCIUM; HEXANOATE, 2-ETHYL-, CALCIUM; CALCIUM-2-ETHYLHEXOATE                                                   | 0.1 - 1* | 13586-82-8 |
| 2-ethylhexanoic acid              | Hexanoic acid, 2-ethyl-, cobalt salt (1:?); Hexanoic acid, 2-ethyl-, cobalt salt; Cobalt 2-ethyl hexanoate; cobalt 2-ethylhexoate; 2-Ethylhexanoic acid--cobalt (1/1); Cobalt 2-ethylcaproate; Hexanoic acid, 2-ethyl, cobalt salt; Aliphatic monocarboxylic acid (C6-28) salt (Pb, Cu, Mn, Zn, Zr, Ce, Cd, Sn, Sr, Co); 2-Ethylhexanoic acid, cobalt salt (1:?); 2-Ethylhexanoic acid cobalt salt; HEXANOATE, 2-ETHYL, COBALT | 0.1 - 1* | 149-57-5   |

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

**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** : No known significant effects or critical hazards.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- 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:  
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 medical attention and special treatment needed, if necessary

## Section 4. First-aid measures

- 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<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
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 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).

### 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). 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. 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. 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** : Wash hands thoroughly after handling.
- 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, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 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

| Ingredient name                                                                                                                                                                                        | Exposure limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div><div><div><div></div><div>Naphtha (petroleum), hydrodesulfurized heavy</div><div>Calcite</div></div></div><div>2-ethylhexanoic acid, zirconium salt</div><div>carbon black</div></div></div> | <div>None.</div> <div>CA Alberta Provincial (Canada, 3/2023)</div> <div>[Calcium carbonate]</div> <div>OEL 8 hours: 10 mg/m³.</div> <div>CA Quebec Provincial (Canada, 2/2024)</div> <div>[Calcium carbonate]</div> <div>TWAEV 8 hours: 10 mg/m³. Form: total particulate matter.</div> <div>CA Alberta Provincial (Canada, 3/2023)</div> <div>[Zirconium and compounds]</div> <div>OEL 8 hours: 5 mg/m³ (as Zr).</div> <div>OEL 15 minutes: 10 mg/m³ (as Zr).</div> <div>CA British Columbia Provincial (Canada, 3/2025) [zirconium and compounds]</div> <div>TWA 8 hours: 5 mg/m³ (as Zr).</div> <div>STEL 15 minutes: 10 mg/m³ (as Zr).</div> <div>CA Ontario Provincial (Canada, 6/2019)</div> <div>[Zirconium and compounds]</div> <div>STEL 15 minutes: 10 mg/m³ (as Zr).</div> <div>TWA 8 hours: 5 mg/m³ (as Zr).</div> <div>CA Quebec Provincial (Canada, 2/2024)</div> <div>[Zirconium and compounds]</div> <div>TWAEV 8 hours: 5 mg/m³ (as Zr).</div> <div>STEV 15 minutes: 10 mg/m³ (as Zr).</div> <div>CA Alberta Provincial (Canada, 3/2023)</div> <div>OEL 8 hours: 3.5 mg/m³.</div> <div>CA British Columbia Provincial (Canada, 3/2025)</div> <div>TWA 8 hours: 3 mg/m³. Form: inhalable.</div> <div>CA Ontario Provincial (Canada, 6/2019)</div> <div>TWA 8 hours: 3 mg/m³. Form: inhalable particulate matter.</div> <div>CA Quebec Provincial (Canada, 2/2024)</div> <div>TWAEV 8 hours: 3 mg/m³. Form: inhalable aerosol fraction.</div> <div>CA Saskatchewan Provincial (Canada, 4/2021)</div> <div>STEL 15 minutes: 7 mg/m³.</div> <div>TWA 8 hours: 3.5 mg/m³.</div> |

## Section 8. Exposure controls/personal protection

xylene

**CA Alberta Provincial (Canada, 3/2023)**  
**[Dimethylbenzene]**

OEL 8 hours: 100 ppm.  
 OEL 15 minutes: 651 mg/m<sup>3</sup>.  
 OEL 15 minutes: 150 ppm.  
 OEL 8 hours: 434 mg/m<sup>3</sup>.

**CA British Columbia Provincial (Canada, 3/2025) [xylene (o, m & p isomers)]**

TWA 8 hours: 100 ppm.  
 STEL 15 minutes: 150 ppm.

**CA Ontario Provincial (Canada, 6/2019)**  
**[Xylene (o-, m-, p-isomers)]**

STEL 15 minutes: 150 ppm.  
 TWA 8 hours: 100 ppm.

**CA Quebec Provincial (Canada, 2/2024)**  
**[Xylene]**

TWAEV 8 hours: 100 ppm.  
 TWAEV 8 hours: 434 mg/m<sup>3</sup>.  
 STEV 15 minutes: 150 ppm.  
 STEV 15 minutes: 651 mg/m<sup>3</sup>.

**CA Saskatchewan Provincial (Canada, 4/2021) [Xylene]**

STEL 15 minutes: 150 ppm.  
 TWA 8 hours: 100 ppm.

ethylbenzene

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 100 ppm.  
 OEL 8 hours: 434 mg/m<sup>3</sup>.  
 OEL 15 minutes: 543 mg/m<sup>3</sup>.  
 OEL 15 minutes: 125 ppm.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 20 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 20 ppm.

**CA Quebec Provincial (Canada, 2/2024)**

TWAEV 8 hours: 20 ppm.

**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 125 ppm.  
 TWA 8 hours: 100 ppm.

2-butanone oxime

None.

calcium bis(2-ethylhexanoate)

None.

2-ethylhexanoic acid, cobalt salt

**CA British Columbia Provincial (Canada, 3/2025) [cobalt and inorganic compounds]**

Skin sensitizer , Inhalation sensitizer.

TWA 8 hours: 0.02 mg/m<sup>3</sup> (as Co). Form: inhalable.

**CA Ontario Provincial (Canada, 6/2019)**  
**[Cobalt and inorganic compounds]**

TWA 8 hours: 0.02 mg/m<sup>3</sup> (as Co).

**CA Quebec Provincial (Canada, 2/2024)**  
**[Cobalt elemental, and inorganic compounds]**

Skin sensitizer , Inhalation sensitizer.

TWAEV 8 hours: 0.02 mg/m<sup>3</sup> (as Co).

## Section 8. Exposure controls/personal protection

2-ethylhexanoic acid

Form: inhalable aerosol fraction.

**CA Saskatchewan Provincial (Canada, 4/2021) [Cobalt and inorganic compounds]**

STEL 15 minutes: 0.06 mg/m<sup>3</sup> (measured as Co).

TWA 8 hours: 0.02 mg/m<sup>3</sup> (measured as Co).

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 5 mg/m<sup>3</sup>.

**CA British Columbia Provincial (Canada, 3/2025)**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: inhalable vapour and aerosol.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: inhalable fraction and vapour.

**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: inhalable fraction and vapour.

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: inhalable fraction and vapour.

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures** : 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

**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**

## Section 8. Exposure controls/personal 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: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), Viton®  
May be used: nitrile 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.
- 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** : Characteristic.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : >37.78°C (>100°F)
- Flash point** : Closed cup: 62°C (143.6°F)
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Flammability** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 0.99
- Density ( lbs / gal )** : 8.26

**Solubility(ies)** :

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |

- Partition coefficient: n-octanol/water** : Not applicable.

## Section 9. Physical and chemical properties

**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

**% Solid. (w/w)** : 96.441

### Particle characteristics

**Median particle size** : Not applicable.

## 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** : Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                      | Result                        | Dose                |
|----------------------------------------------|-------------------------------|---------------------|
| Naphtha (petroleum), hydrodesulfurized heavy | Rat - Oral - LD50             | >5000 mg/kg         |
| 2-ethylhexanoic acid, zirconium salt         | Rabbit - Dermal - LD50        | >2000 mg/kg         |
|                                              | Rabbit - Dermal - LD50        | >5 g/kg             |
| carbon black                                 | Rat - Oral - LD50             | >5 g/kg             |
|                                              | Rat - Oral - LD50             | >10 g/kg            |
| xylene                                       | Rat - Oral - LD50             | 4.3 g/kg            |
|                                              | Rabbit - Dermal - LD50        | 1.7 g/kg            |
| ethylbenzene                                 | Rat - Oral - LD50             | 3.5 g/kg            |
|                                              | Rabbit - Dermal - LD50        | 17.8 g/kg           |
| 2-butanone oxime                             | Rat - Inhalation - LC50 Vapor | 17.8 mg/l [4 hours] |
|                                              | Rabbit - Dermal - LD50        | 1100 mg/kg          |
| 2-ethylhexanoic acid                         | Rat - Oral - LD50             | 100 mg/kg           |
|                                              | Rat - Oral - LD50             | 3640 mg/kg          |
|                                              | Rat - Dermal - LD50           | >2000 mg/kg         |

**Product Conclusion** : There are no data available on the mixture itself.

#### Skin corrosion/irritation

## Section 11. Toxicological information

| Product/ingredient name | Species                           | Dose                                                                                   | Score |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------|-------|
| xylene                  | Rabbit - Skin - Moderate irritant | Amount/concentration applied:<br>500 mg<br>Duration of treatment/exposure:<br>24 hours | -     |

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

### Serious eye damage/eye irritation

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

### Respiratory corrosion/irritation

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

### Sensitization

#### Skin

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

#### Respiratory

**Conclusion/Summary** : 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                                              |
|-----------------------------------|------|------|--------------------------------------------------|
| Carbon black                      | -    | 2B   | -                                                |
| xylene                            | -    | 3    | -                                                |
| ethylbenzene                      | -    | 2B   | -                                                |
| 2-ethylhexanoic acid, cobalt salt | -    | 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.

### Specific target organ toxicity (single exposure)

| Product/ingredient name                             | Result                                                                                                                                                                                 |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrodesulfurized heavy xylene | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)<br>(Respiratory tract irritation) - Category 3 |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name                                   | Result                                                                                                                                                 |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrodesulfurized heavy ethylbenzene | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)<br>(hearing organs) - Category 2 |

### Target organs

: Contains material which causes damage to the following organs: brain.  
Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

### Aspiration hazard

## Section 11. Toxicological information

| Product/ingredient name                | Result                         |
|----------------------------------------|--------------------------------|
| Naphtha (petroleum), hydrodesulfurized | ASPIRATION HAZARD - Category 1 |
| heavy                                  |                                |
| xylene                                 | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                           | ASPIRATION HAZARD - Category 1 |

### Information on the likely routes of exposure

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- 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:  
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

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

## Section 11. Toxicological information

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

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

**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.

**Reproductive toxicity** : May damage fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                      | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|----------------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| SIGMARINE 48 BLACK 8000                      | 84096.2      | 2895.3         | N/A                      | 39.7                       | 4.5                                 |
| Naphtha (petroleum), hydrodesulfurized heavy | N/A          | 2500           | N/A                      | N/A                        | N/A                                 |
| xylene                                       | 4300         | 1700           | N/A                      | 11                         | 1.5                                 |
| ethylbenzene                                 | 3500         | 17800          | N/A                      | 17.8                       | 1.5                                 |
| 2-butanone oxime                             | 500          | 1100           | N/A                      | N/A                        | N/A                                 |
| 2-ethylhexanoic acid, cobalt salt            | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| 2-ethylhexanoic acid                         | 3640         | 2500           | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name              | Result                                                                                      | Species                                        |
|--------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------|
| 2-ethylhexanoic acid, zirconium salt | Acute - LC50<br>>100 mg/l [96 hours]                                                        | Fish                                           |
| ethylbenzene                         | Acute - EC50 - Fresh water<br>1.8 mg/l [48 hours]<br>Chronic - NOEC - Fresh water<br>1 mg/l | Daphnia<br>Daphnia - <i>Ceriodaphnia dubia</i> |

**Conclusion/Summary** : Not available.

### Persistence and degradability

## Section 12. Ecological information

| Product/ingredient name | Result                  |
|-------------------------|-------------------------|
| ethylbenzene            | 79% [10 days] - Readily |

**Conclusion/Summary** : Not available.

### Bioaccumulative potential

| Product/ingredient name                      | LogP <sub>ow</sub> | BCF               | Potential |
|----------------------------------------------|--------------------|-------------------|-----------|
| Naphtha (petroleum), hydrodesulfurized heavy | -                  | 10 to 2500        | High      |
| xylene                                       | 3.12               | 7.4 to 18.5       | Low       |
| ethylbenzene                                 | 3.6                | 79.43             | Low       |
| 2-butanone oxime                             | 0.63               | 5.01 [OECD 305 C] | Low       |
| 2-ethylhexanoic acid                         | 2.7                | -                 | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : 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

## Section 14. Transport information

**Section 14. Transport information**

|                             | TDG                                                                                                   | IMDG                                                                                                  | IATA                                                                                                  |
|-----------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| UN number                   | UN3082                                                                                                | UN3082                                                                                                | UN3082                                                                                                |
| UN proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Naphtha (petroleum), hydrodesulfurized heavy) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Naphtha (petroleum), hydrodesulfurized heavy) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Naphtha (petroleum), hydrodesulfurized heavy) |
| Transport hazard class (es) | 9                                                                                                     | 9                                                                                                     | 9                                                                                                     |
| Packing group               | III                                                                                                   | III                                                                                                   | III                                                                                                   |
| Environmental hazards       | Yes.                                                                                                  | Yes.                                                                                                  | Yes.                                                                                                  |
| Marine pollutant substances | (Naphtha (petroleum), hydrodesulfurized heavy)                                                        | (Naphtha (petroleum), hydrodesulfurized heavy)                                                        | Not applicable.                                                                                       |

- Additional information**
- TDG

: Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail. This product may be transported as Class 3, Flammable Liquids, Packing Group III using TDGR 1.34 (Class 3, Flammable Liquids, Flash Point Greater Than 60°C but Less Than or Equal to 93°C) on a road vehicle, a railway vehicle or a vessel on a domestic voyage. The requirements of TDG Regulations that relate to flammable liquids that have a flash point less than or equal to 60°C must be complied with.
- 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.

**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.

**Proof of classification statement** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).

**Section 15. Regulatory information**

**National Inventory List**

Canada inventory ( DSL ) : All components are listed or exempted.

**Section 16. Other information**

**Please refer to Section 2 of this document for GHS hazard classifications.**  
**The customer is responsible for determining the PPE code for this material.**

**Date of issue/Date of revision** : 9 February 2026

**Organization that prepared the SDS** : 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)  
N/A = Not available  
SGG = Segregation Group  
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.*