

Shopline JH301 Hardener for Jp202 Primer

# Material Safety Data Sheet



Date of issue 5 May 2009  
Version 7.01

## 1. Product and company identification

Product name : **HARDENER FOR SV PRIMER**  
Code : JH301  
Supplier : Refinish Products  
19699 Progress Drive  
Strongsville, OH 44149  
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

## 2. Hazards identification

Emergency overview : DANGER!  
FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. SKIN CONTACT TO ISOCYANATE MONOMER MAY LEAD TO ALLERGIC LUNG REACTION. MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. DEVELOPMENTAL HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS. REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.  
Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Avoid exposure during pregnancy. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

### Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.  
Ingestion : May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.  
Skin : Harmful in contact with skin. Irritating to skin. May cause an allergic skin reaction.  
Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

### Over-exposure signs/symptoms

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. 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. Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

Product name HARDENER FOR SV PRIMER

## 2. Hazards identification

**Medical conditions aggravated by over-exposure** : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (section 11)

## 3. Composition/information on ingredients

| <u>Name</u>                           | <u>CAS number</u> | <u>%</u> |
|---------------------------------------|-------------------|----------|
| Hexamethylene diisocyanate, oligomers | 28182-81-2        | 15 - 40  |
| n-butyl acetate                       | 123-86-4          | 15 - 40  |
| xylene (mixture of o-, m-, p-isomers) | 1330-20-7         | 7 - 13   |
| ethyl acetate                         | 141-78-6          | 5 - 10   |
| toluene                               | 108-88-3          | 5 - 10   |
| ethylbenzene                          | 100-41-4          | 1 - 5    |
| hexamethylene-di-isocyanate           | 822-06-0          | 0.1 - 1  |

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.

## 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 Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

**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.

**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.

**Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

**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.

## 5. Fire-fighting measures

**Flammability of the product** : Flammable liquid. 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.

### Extinguishing media

**Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Not suitable** : Do not use water jet.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## 5 . Fire-fighting measures

- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
Hydrogen cyanide (HCN).  
Cyanate and isocyanate.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. 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.
- 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 or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Special provisions** : 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Avoid exposure during pregnancy. 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

## 7. Handling and storage

ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material 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.

### Storage

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure buildup could result in distortion, expansion and, in extreme cases, bursting of the container. Do not store above the following temperature: 120F / 49C.

## 8. Exposure controls/personal protection

| Name                                  | Result | ACGIH           | OSHA                       | Ontario         | Mexico          | PPG                   |
|---------------------------------------|--------|-----------------|----------------------------|-----------------|-----------------|-----------------------|
| Hexamethylene diisocyanate, oligomers | TWA    | Not established | Not established            | Not established | Not established | 0.5 mg/m <sup>3</sup> |
|                                       | STEL   | Not established | Not established            | Not established | Not established | 1 mg/m <sup>3</sup>   |
| n-butyl acetate                       | TWA    | 150 ppm         | 150 ppm                    | 150 ppm         | 150 ppm         | Not established       |
|                                       | STEL   | 200 ppm         | Not established            | 200 ppm         | 200 ppm         | Not established       |
| xylene (mixture of o-, m-, p-isomers) | TWA    | 100 ppm         | 100 ppm                    | 100 ppm         | 100 ppm         | Not established       |
|                                       | STEL   | 150 ppm         | Not established            | 150 ppm         | 150 ppm         | Not established       |
| ethyl acetate                         | TWA    | 400 ppm         | 400 ppm                    | 400 ppm         | 400 ppm         | Not established       |
| toluene                               | TWA    | 20 ppm          | 200 ppm Z                  | 50 ppm          | 50 ppm          | Not established       |
|                                       | STEL   | Not established | 500 ppm Z A<br>300 ppm Z C | Not established | Not established | Not established       |
| ethylbenzene                          | TWA    | 100 ppm         | 100 ppm                    | 100 ppm         | 100 ppm         | Not established       |
|                                       | STEL   | 125 ppm         | Not established            | 125 ppm         | 125 ppm         | Not established       |
| hexamethylene-di-isocyanate           | TWA    | 0.01 ppm        | Not established            | Not established | Not established | Not established       |

## 8 . Exposure controls/personal protection

### 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   | TD  | = Total dust  |
| IPEL  | = Internal Permissible Exposure Limit                        | TLV | = Threshold Limit Value   |
| OSHA  | = Occupational Safety and Health Administration.             | TWA | = Time Weighted Average   |
| R     | = Respirable   | Z   | = OSHA 29CFR 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.
- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

- Eyes** : Chemical splash goggles.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Gloves** : butyl rubber
- Respiratory** : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.
- Skin** : 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.
- 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.
- Restrictions on use** : Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

## 9 . Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: 18.89°C (66°F)
- Explosion limits** : Lower: 1.7%
- Color** : Not available.
- Odor** : Not available.
- pH** : Not available.
- Boiling/condensation point** : >37.78°C (>100°F)
- Melting/freezing point** : Not available.

Product name HARDENER FOR SV PRIMER

## 9 . Physical and chemical properties

|                                     |                            |
|-------------------------------------|----------------------------|
| Specific gravity                    | : 0.96                     |
| Density ( lbs / gal )               | : 8.01                     |
| Vapor pressure                      | : 2.7 kPa (20.2 mm Hg)     |
| Vapor density                       | : Not available.           |
| Volatility                          | : 70% (v/v), 63.93% (w/w)  |
| Odor threshold                      | : Not available.           |
| Evaporation rate                    | : 178 (Butyl acetate. = 1) |
| Octanol/water partition coefficient | : Not available.           |
| % Solid. (w/w)                      | : 36.07                    |

## 10 . Stability and reactivity

|                                  |   |
|----------------------------------|---|
| Stability                        | : The product may not be stable under certain conditions of storage or use.   |
| Conditions to avoid              | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Materials to avoid               | : Reactive or incompatible with the following materials: oxidizing materials, strong acids, strong alkalis  |
| Hazardous decomposition products | : Cyanate and isocyanate.   |
| Hazardous polymerization         | : Under normal conditions of storage and use, hazardous polymerization will not occur.  |

## 11 . Toxicological information

### Acute toxicity

| Product/ingredient name                                  | Result                   | Species | Dose                    | Exposure |
|--|--------------------------|---------|-------------------------|----------|
| Hexamethylene diisocyanate, oligomers<br>n-butyl acetate | LC50 Inhalation          | Rat     | 18500 mg/m <sup>3</sup> | 1 hours  |
|  | LD50 Oral                | Rat     | 10.768 g/kg             | -        |
|  | LD50 Dermal              | Rabbit  | >17600 mg/kg            | -        |
|  | LC50 Inhalation<br>Vapor | Rat     | 390 ppm                 | 4 hours  |
| xylene (mixture of o-, m-, p-isomers)                    | LD50 Oral                | Rat     | 4.3 g/kg                | -        |
|  | LD50 Dermal              | Rabbit  | >1.7 g/kg               | -        |
|  | LC50 Inhalation<br>Vapor | Rat     | 5000 ppm                | 4 hours  |
|  | LD50 Oral                | Rat     | 5620 mg/kg              | -        |
| ethyl acetate  | LD50 Dermal              | Rabbit  | >5 g/kg                 | -        |
|  | LD50 Oral                | Rat     | 0.636 g/kg              | -        |
| toluene  | LD50 Dermal              | Rabbit  | 8.39 g/kg               | -        |
|  | LC50 Inhalation          | Rat     | 49 gm/m <sup>3</sup>    | 4 hours  |
|  | LD50 Oral                | Rat     | 3.5 g/kg                | -        |
|  | LD50 Dermal              | Rabbit  | >5000 mg/kg             | -        |
| ethylbenzene   | LC50 Inhalation          | Rat     | 4000 ppm                | 4 hours  |
|  | Vapor                    |         |                         |          |
|  | LD50 Oral                | Rat     | 0.71 g/kg               | -        |
|  | LD50 Dermal              | Rabbit  | 0.57 g/kg               | -        |
| hexamethylene-di-isocyanate                              | LC50 Inhalation          | Rat     | 151 mg/m <sup>3</sup>   | 4 hours  |
|  | Vapor                    |         |                         |          |
|  | LD50 Oral                | Rat     | 0.71 g/kg               | -        |
|  | LD50 Dermal              | Rabbit  | 0.57 g/kg               | -        |

Conclusion/Summary : Not available.

### Chronic toxicity

Conclusion/Summary : Not available.

## Product name HARDENER FOR SV PRIMER

**11 . Toxicological information**

- Defatting irritant?** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Target organs** : Contains material which causes damage to the following organs: blood, kidneys, liver, brain, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.  
Contains material which may cause damage to the following organs: heart.

**Carcinogenicity**

- Conclusion/Summary** : Not available.
- Carcinogenicity** : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

**Classification**

| Product/ingredient name               | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|---------------------------------------|-------|------|-----|-------|-----|------|
| xylene (mixture of o-, m-, p-isomers) | A4    | 3    | -   | -     | -   | -    |
| ethyl acetate                         | A4    | -    | -   | -     | -   | -    |
| toluene                               | A4    | 3    | -   | -     | -   | -    |
| ethylbenzene                          | A3    | 2B   | -   | -     | -   | -    |

**Mutagenicity**

- Conclusion/Summary** : Not available.
- Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity**

- Conclusion/Summary** : Not available.
- Teratogenicity** : No known significant effects or critical hazards.

**Reproductive toxicity**

- Conclusion/Summary** : Not available.
- Developmental effects** : Contains material which can cause developmental abnormalities.
- Fertility effects** : Contains material which can impair female fertility.

**12 . Ecological information**

- Environmental effects** : No known significant effects or critical hazards.

**Aquatic ecotoxicity**

| Product/ingredient name               | Result                                       | Species   | Exposure |
|---------------------------------------|--|---|----------|
| n-butyl acetate                       | Acute LC50 18000 to 19000 ug/L Fresh water   | Fish - Fathead minnow - Pimephales promelas                 | 96 hours |
| xylene (mixture of o-, m-, p-isomers) | Acute LC50 3300 to 4093 ug/L Fresh water     | Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss | 96 hours |
| ethyl acetate                         | Acute LC50 230000 to 250000 ug/L Fresh water | Fish - Fathead minnow - Pimephales promelas                 | 96 hours |
|                                       | Acute LC50 560000 ug/L Fresh water           | Daphnia - Water flea - Daphnia magna                        | 48 hours |
| toluene                               | Acute LC50 5800 ug/L Fresh water             | Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss | 96 hours |
|                                       | Acute LC50 280 to 480 ppm Marine water       | Fish - Sheepshead minnow - Cyprinodon variegatus            | 96 hours |
|                                       | Acute EC50 6000 ug/L Fresh water             | Daphnia - Water flea - Daphnia magna                        | 48 hours |

## 12 . Ecological information

|              |   |  |          |
|--------------|---|--|----------|
| ethylbenzene | Acute LC50 4200 ug/L Fresh water          | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 96 hours |
|              | Acute LC50 5100 to 5700 ug/L Marine water | Fish - Atlantic silverside - Menidia menidia               | 96 hours |
|              | Acute EC50 2930 to 4400 ug/L Fresh water  | Daphnia - Water flea - Daphnia magna                       | 48 hours |
|              | Chronic NOEC 3300 ug/L Marine water       | Fish - Atlantic silverside - Menidia menidia               | 96 hours |

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14 . Transport information

| Regulation | UN number | Proper shipping name | Classes | PG* | Additional information |
|------------|-----------|----------------------|---------|-----|------------------------|
| UN         | 1263      | Paint                | 3       | II  | -                      |
| IMDG       | 1263      | Paint                | 3       | II  | -                      |
| DOT        | 1263      | Paint                | 3       | II  | -                      |

PG\* : Packing group

Reportable quantity RQ : CERCLA: Hazardous substances.: ethyl acetate: 5000 lbs. (2270 kg); n-butyl acetate: 5000 lbs. (2270 kg); ethylbenzene: 1000 lbs. (454 kg); toluene: 1000 lbs. (454 kg); xylene (mixture of o-, m-, p-isomers): 100 lbs. (45.4 kg);

## 15 . Regulatory information

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

**Australia inventory (AICS)** : Not determined.

**Canada inventory** : All components are listed or exempted.

**China inventory (IECSC)** : All components are listed or exempted.

**Europe inventory** : All components are listed or exempted.

**Japan inventory (ENCS)** : At least one component is not listed.

**Korea inventory (KECI)** : All components are listed or exempted.

**New Zealand** : Not determined.

**Philippines inventory (PICCS)** : All components are listed or exempted.

**United States**



## 15 . Regulatory information

U.S. Federal regulations : TSCA 12(b) annual export notification: No products were found.

TSCA 12(b) one-time export: No products were found.

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** ethyl acetate; n-butyl acetate; ethylbenzene; toluene; xylene (mixture of o-, m-, p-isomers)

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** ethyl acetate: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; n-butyl acetate: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; ethylbenzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; toluene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; xylene (mixture of o-, m-, p-isomers): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

CERCLA: Hazardous substances.: ethyl acetate: 5000 lbs. (2270 kg); n-butyl acetate: 5000 lbs. (2270 kg); ethylbenzene: 1000 lbs. (454 kg); toluene: 1000 lbs. (454 kg); xylene (mixture of o-, m-, p-isomers): 100 lbs. (45.4 kg);

### SARA 313

Form R - Reporting requirements

#### Product name

#### CAS number

#### Concentration

: xylene (mixture of o-, m-, p-isomers)

1330-20-7

7 - 13

toluene

108-88-3

5 - 10

ethylbenzene

100-41-4

1 - 5

### California Prop. 65

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

### Canada

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

### Mexico

Classification

Flammability : 3 Health : 2 Reactivity : 1

## 16 . Other information

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

Health : 2 \* 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 : 2 Flammability : 3 Instability : 1

Date of previous issue : No previous validation.

Organization that prepared the MSDS : EHS

☑ Indicates information that has changed from previously issued version.

### Disclaimer

## 16 . Other information

*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.*