1. Product and company identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>AMERCOAT 911 THINNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>AT911</td>
</tr>
<tr>
<td>Product type</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Product use</th>
<th>Industrial applications, Used by spraying.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the substance/mixture</td>
<td>Thinner.</td>
</tr>
<tr>
<td>Uses advised against</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Supplier's details**

PPG PMC Japan Co., Ltd.
8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803
Tel: +81 78 574 2777
Fax: +81 78 576 0035

**Emergency telephone number**

078 574 2777

2. Hazards identification

**GHS Classification**

- FLAMMABLE LIQUIDS - Category 3
- EYE IRRITATION - Category 2B
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
- AQUATIC HAZARD (ACUTE) - Category 3

**GHS label elements**

- **Hazard pictograms**
  - [Flammable]
  - [Warning]

**Signal word**

Warning

**Hazard statements**

- Flammable liquid and vapor.
- Causes eye irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- Harmful to aquatic life.

**Precautionary statements**
2. Hazards identification

Prevention : Wear protective gloves. Wear eye or face protection. 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. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : 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 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.

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Mixture</th>
</tr>
</thead>
</table>

CAS number/other identifiers

<table>
<thead>
<tr>
<th>CAS number</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCS number</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
<th>ENCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>50 - 100</td>
<td>123-86-4</td>
<td>2-731</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>0.2 - &lt;0.5</td>
<td>71-36-3</td>
<td>2-3049</td>
</tr>
</tbody>
</table>

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.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

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 eye irritation.
4. First aid measures

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

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

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

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
dizziness/fatigue
dizziness/vertigo
unconsciousness

Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

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.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid and vapor. 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. This material is harmful to aquatic life. 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 oxides
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.

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.

7. Handling and storage

**Precautions for safe 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. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion,
7. Handling and storage

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.

Conditions for safe storage: Do not store above the following temperature: 50°C (122°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. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>Japan Society for Occupational Health (Japan, 5/2017).&lt;br&gt;(OEL-M: 475 \text{ mg/m}^3 \text{ 8 hours.})&lt;br&gt;(OEL-M: 100 \text{ ppm 8 hours.})&lt;br&gt;(ISHL (Japan, 4/2017).)&lt;br&gt;(TWA: 150 \text{ ppm 8 hours.})</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>Japan Society for Occupational Health (Japan, 5/2017). Absorbed through skin.&lt;br&gt;(OEL-C: 150 \text{ mg/m}^3)&lt;br&gt;(OEL-C: 50 \text{ ppm})&lt;br&gt;(ISHL (Japan, 4/2017).)&lt;br&gt;(TWA: 25 \text{ ppm 8 hours.})</td>
</tr>
</tbody>
</table>

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

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.
8. Exposure controls/personal protection

Eye protection: Safety glasses with side shields.

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:

- May be used: polyvinyl alcohol (PVA), Viton®
- Not recommended: 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.

9. Physical and chemical properties

**Appearance**

- **Physical state**: Liquid.
- **Odor**: Characteristic.
- **Boiling point**: >37.78°C (>100°F)
- **Flash point**: Closed cup: 27.22°C (81°F)
- **Material supports combustion**: Yes.
- **Evaporation rate**: 1 (butyl acetate = 1)
- **Vapor pressure**: 1.5 kPa (11 mm Hg) [room temperature]
- **Relative density**: 0.88
- **Solubility**: Insoluble in the following materials: cold water.
- **Viscosity**: Not Applicable

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.
10. Stability and reactivity

Conditions to avoid: When exposed to high temperatures may produce hazardous decomposition products.

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.

11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>&gt;21.1 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>LD50 Inhalation Vapor</td>
<td>Rat</td>
<td>2000 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;17600 mg/kg</td>
<td>4 hours</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>10.768 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>24000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>LC50 Oral</td>
<td>Rat</td>
<td>8000 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>3400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>790 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion
Not available.

Sensitization
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects respiratory tract irritation</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects respiratory tract irritation</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects respiratory tract irritation</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

Specific target organ toxicity (repeated exposure)
11. Toxicological information

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Butanol</td>
<td>Category 1</td>
<td>Not determined</td>
<td>central nervous system (CNS) and hearing organs</td>
</tr>
</tbody>
</table>

Aspiration hazard
Not available.

Information on the likely routes of exposure
Not available.

Potential acute health effects

Eye contact
Causes eye irritation.

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

Skin contact
Defatting to the skin. May cause skin dryness and irritation.

Ingestion
Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
Adverse symptoms may include the following:
- irritation
- watering
- redness

Inhalation
Adverse symptoms may include the following:
- respiratory tract irritation
- coughing
- nausea or vomiting
- headache
- dizziness
- vertigo
- dizziness/vertigo
- unconsciousness

Skin contact
Adverse symptoms may include the following:
- irritation
- dryness
- cracking

Ingestion
No specific data.

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

Short term exposure

Potential immediate effects
Not available.

Potential delayed effects
Not available.

Long term exposure

Potential immediate effects
Not available.

Potential delayed effects
Not available.

Potential chronic health effects

General
Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity
No known significant effects or critical hazards.

Mutagenicity
No known significant effects or critical hazards.
11. Toxicological information

Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates
Not available.

Other information
Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Butanol</td>
<td>Acute LC50 1376 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Persistence/degradability
Not available.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>1.78</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>0.88</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

| Soil/water partition coefficient (K_{oc}) | Not available. |
| Mobility                               | Not available. |

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

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.
14. Transport information

<table>
<thead>
<tr>
<th>UN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1123</td>
<td>UN1123</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>BUTYL ACETATES</td>
<td>BUTYL ACETATES</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Marine pollutant substances</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Additional information
- UN: None identified.
- IMDG: None identified.
- IATA: None identified.

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.

15. Regulatory information

Fire Service Law

<table>
<thead>
<tr>
<th>Category</th>
<th>Substance name/Type</th>
<th>Danger category</th>
<th>Signal word</th>
<th>Designated quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category IV</td>
<td>Class II petroleums</td>
<td>III</td>
<td>Flammable - Keep Fire Away</td>
<td>1000 L</td>
</tr>
</tbody>
</table>

Pollutant Release and Transfer Registers (PRTR)
- None of the components are listed.

ISHL
- Use of specified chemical substances
  - None of the components are listed.

Label requirements

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>Status</th>
<th>Reference number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>≥90</td>
<td>Listed</td>
<td>181</td>
</tr>
</tbody>
</table>

Chemicals requiring notification

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>Status</th>
<th>Reference number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl acetate</td>
<td>≥90</td>
<td>Listed</td>
<td>181</td>
</tr>
<tr>
<td>Butanol</td>
<td>&lt;1.0</td>
<td>Listed</td>
<td>477</td>
</tr>
</tbody>
</table>

Carcinogen
- None of the components are listed.

Mutagen
- None of the components are listed.
### Regulatory Information

None of the components are listed.

#### Corrosive liquid
- Not listed

#### Occupational Safety and Health Law
- Flammable liquid Class 3

#### Prevention of Tetraalkyl Lead Poisoning
- Not listed

#### Harmful Substances Subject to Obtaining Permission for Manufacturing
- Not listed

#### Harmful Substances, Prohibited for Manufacturing
- Not listed

#### Dangerous Substances
- Not listed

#### Lead regulation
- Not listed

#### Organic solvents poisoning prevention
- Class 2

#### Poisonous and Deleterious Substances
- None of the components are listed.

#### Chemical Substances Control Law (CSCL)
- None of the components are listed.

#### High Pressure Gas Control Law
- Not available.

#### Explosives Control Law
- None of the components are listed.

#### Law Concerning Prevention of Pollution of the Ocean and Maritime Disaster
- Not available.

#### Maritime Safety Law
- Notification Regulating Transportation of Dangerous Materials by Sea
  - None of the components are listed.

#### Container class
- None of the components are listed.

#### JSOH Carcinogen
- Not listed

#### List of Specially Controlled Industrial Waste
- Not listed

#### Japan inventory
- All components are listed or exempted.

#### Road law
- Not available.
History

Date of issue/Date of revision : 17 June 2019
Date of previous issue : 12/22/2018
Version : 8
Prepared by : EHS

Key to abbreviations

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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.