

**SAFETY DATA SHEET****Section 1: Identification****Product identifier used on the label;**

**Product name:** Tamiya Color Spray for Polycarbonate  
PS-49 Sky Blue Anodized Aluminum (#86049)  
**Product code:** 0401203049

**Other means of identification;**

No information

**Recommended use of the chemical and restrictions on use;**

**Recommended use:** Polyvinyl chloride / polyvinyl acetate coatings (PS)  
**Restrictions on use:** No information

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party;**

**Name:** Tamiya, Inc.  
**Department in Charge:** International Division  
**Address:** 3-7 Ondawara, Suruga-ku, Shizuoka JAPAN 422-8610  
**Telephone number:** +81-(0)54-286-5105 (Headquarters)  
**Fax number:** +81-(0)54-285-3230 (Headquarters)  
**e-mail address:** intl\_div@tamiya-inc.co.jp

**Emergency phone number**

+81-(0)54-286-5105 (Headquarters)

**Section 2: Hazard(s) identification****Classification of the chemical in accordance with paragraph (d) of §1910.1200;****Physical Hazards**

Flammable aerosols Category 1

**Health Hazards**

Acute toxicity (inhalation - vapors): Category 5  
Acute toxicity (inhalation - mist): Category 5  
Skin corrosion/irritation: Category 3  
Serious eye damage/eye irritation: Category 2A  
Germ cell mutagenicity: Category 1  
Reproductive toxicity: Category 1  
Specific target organ toxicity single exposure: Category 1 (respiratory system)  
Category 2 (liver)  
Specific target organ toxicity repeated or prolonged exposure: Category 1 (liver, kidneys, systemic toxicity, central nerve system and peripheral nervous system)  
Category 2 (blood and nerve)

**Environmental Hazards**

Hazardous to the aquatic environment (acute) Category 3

**Other Hazards**

Contact of liquefied gas with skin may cause frostbite.

**Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;****Symbol(s)****Signal word****Danger****Hazard Statement(s)**

H222: Extremely flammable aerosol  
 H229: Pressurized container: may burst if heated  
 H316: Cause mild skin irritation  
 H319: Causes serious eye irritation  
 H333: May be harmful if inhaled  
 H340: May cause genetic defects  
 H360: May damage fertility or the unborn child  
 H370: Causes damage to organs (respiratory system)  
 H371: May cause damage to organs (liver)  
 H372: Causes damage to organs (liver, kidneys, systemic toxicity, central nerve system and peripheral nervous system) through prolonged or repeated exposure  
 H373: May cause damage to organs (blood, nerve) through prolonged or repeated exposure  
 H402: Harmful to aquatic life

**Precautionary Statement(s)**

[Prevention]

P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P211: Do not spray on an open flame or other ignition source.  
 P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242: Use only non-sparking tools.  
 P243: Take precautionary measures against static discharge.  
 P251: Pressurized container: Do not pierce or burn, even after use.  
 P260: Do not breathe dust/fume/gas/mist/ vapors/spray.  
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray

|                      |  |
|----------------------|--|
|                      | <p>P264: Wash hands thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P272: Contaminated work clothing must not be allowed out of the workplace.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p>  |
| [Emergency response] | <p>P302+P352: If on skin: Wash with plenty of water.</p> <p>P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P304+P312: If inhaled Call a Poison Center/doctor/...if you feel unwell.</p> <p>P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P311: If exposed or concerned: Call a poison center/doctor.</p> <p>P308+P313: If exposed or concerned: Get medical advice/attention.</p> <p>P312: Call a poison center/doctor/if you feel unwell.</p> <p>P314: Get medical advice/attention if you feel unwell.</p> <p>P332+P313: If skin irritation occurs: Get medical advice/attention.</p> <p>P333+P313: If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313: If eye irritation persists: Get medical advice/attention.</p> <p>P321: Specific treatment</p> <p>P362+P364: Take off contaminated clothing and wash it before reuse.</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P370+P378: In case of fire: Use suitable extinguishing media to extinguish.</p> |
| [Storage]            | <p>P403+P235: Store in a well-ventilated place. Keep cool.</p> <p>P405: Store locked up.</p> <p>P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 40°C/104 °F.</p>   |
| [Disposal]           | <p>P501: Dispose of contents/container in accordance with local/regional/national/international regulations.</p>   |

**Description of any hazards not otherwise classified;**

No information

**Ingredient with unknown acute toxicity in the mixture**

5 - 10 % of the mixture consists of ingredients of unknown acute toxicity.

**Section 3: Composition/information on ingredients****Compositions (contents of the product)**

| Chemical name                              | CAS No.   | Concentration/<br>concentration<br>ranges (wt %) | Chemical Formula                              |
|--|-----------|--|---|
| Polyvinyl<br>chloride-polyvinyl<br>acetate | —         | < 1  | —   |
| Ethyl acetate                              | 141-78-6  | < 1  | C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>  |
| iso-Propyl acetate                         | 108-21-4  | < 1  | C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> |
| Butyl acetate                              | 123-86-4  | < 1  | C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> |
| iso-Butyl acetate                          | 110-19-0  | 5~15   | C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> |
| Methyl isobutyl ketone                     | 108-10-1  | 1~5  | C <sub>6</sub> H <sub>12</sub> O              |
| Ethylene glycol<br>mono-n-butyl ether      | 111-76-2  | < 1  | C <sub>6</sub> H <sub>14</sub> O <sub>2</sub> |
| Propylene glycol<br>mono-methylether       | 107-98-2  | 1~5  | C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> |
| Ethyl alcohol                              | 64-17-5   | 1~5  | C <sub>2</sub> H <sub>5</sub> OH              |
| iso-propyl alcohol                         | 67-63-0   | < 1  | (CH <sub>3</sub> ) <sub>2</sub> CHOH          |
| Acetone                                    | 67-64-1   | 5~15   | C <sub>3</sub> H <sub>6</sub> O               |
| n-Hexane                                   | 110-54-3  | 4.8  | C <sub>6</sub> H <sub>14</sub>                |
| Diacetone alcohol                          | 123-42-2  | 1~5  | C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> |
| Vinyl acetate                              | 108-05-4  | 0.02   | C <sub>4</sub> H <sub>6</sub> O               |
| Aluminum                                   | 7429-90-5 | < 1  | Al  |

**Section 4: First-aid measures****Necessary first-aid measures by relevant routes of exposure;**

IF INHALED

If inhaled a large volume of vapor or gases, immediately remove victim to fresh air and keep patient at rest and warm.  
If not breathing or breathing is weakened, give artificial respiration.

If you feel unwell after inhaling vapor or gases, keep at rest under fresh air and get medical advice/attention.

IF ON SKIN

Wipe off with a dry cloth then wash the contaminated area with soap and water.

Take off immediately all contaminated clothing.

Wash contaminated area with plenty of soap and water.

If exposed to the solvent to the whole body, wash thoroughly by taking a bath or shower.

|              |  |
|--------------|--|
|              | When suffering from frostbite due to contact with the liquefied gas, rinse skin with plenty of regular/warm water without taking off clothes.<br>If appearance changes or pain occur, get medical advice/attention.<br>Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>If pain continues, immediately get medical advice/attention. |
| IF IN EYES   |  |
| IF SWALLOWED | As this product is volatile, vomiting may increase risk.<br>Immediately get medical advice/attention.<br>Wash mouth out thoroughly with water.<br>If unconscious, do not give anything by mouth.   |

**Most important symptoms/effects, acute and delayed;**

- May cause an allergic skin reaction.
- Causes serious eye irritation.
- Harmful if inhaled.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.
- Causes damage to organs.
- Causes damage to organs through prolonged or repeated exposure.
- May cause damage to organs through prolonged or repeated exposure.

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

No information

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**Section 5: Fire-fighting measures**

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**Suitable (and unsuitable) extinguishing media;****Suitable extinguishing media:**

- Keep away from aerosol products that might explode when exposed to high temperatures.
- Do not use water.
- In case of a small-scale fire: dry chemical powder, carbon dioxide or alcohol resistance foam.
- In case of a large-scale fire: carbon dioxide, fire foam, dry chemical powder or dry sand.

**Unsuitable extinguishing media**

Direct water

**Specific hazards arising from the chemical;**

- Aerosol containers may explode in fire.
- Content is highly flammable combustible liquid.

**Special protective equipment and precautions for fire-fighters;**

Immediately extinguish a fire with fire extinguisher.

Use the specified fire extinguisher.

Immediately remove nearby flammable materials.

Take action from windward. Avoid breathing toxic gases (e.g. CO, NO<sub>x</sub>).

Ensure to wear suitable protective equipment (e.g. heat resistant protective clothing, protective glasses and self-contained compressed air breathing apparatus) in firefighting.

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**Section 6: Accidental release measures**

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**Personal precautions, protective equipment, and emergency procedures;**

Appropriate protective equipment must be worn when handling spill of this material.

May cause organic solvent poisoning.

Hazardous to human health. This product has risk of acute or chronic effects.

Before taking any measures in the event of gas leakage (blowout), approach the spot from the windward side to empty out the gas container, with the leaking area facing upward.

Quickly remove ignition sources, high temperature materials or combustible materials from the surrounding. Evacuate people downwind from the fire. Keep out except responsible personnel.

Set up dry chemical powder or fire foam in preparation for ignition.

Pick up the gas container using tools made from materials that avoid impact/static-induced sparks (anti-spark).

Ventilate confined spaces before entering.

Wear suitable protective equipment (e.g. gloves, protective mask, apron and goggle).

Avoid release into the environment because spilled product may cause local effects.

In case of a small amount of spill, collect spilled product by absorbing in dry sand or sawdust and followed by placing it in a waste container.

If case of large amounts, prevent leakage and enclose by embankment.

Collect leakage into a closed container and then move to safe place.

Do not allow leakage to enter drains or sewers.

Dispose of contaminants or wastes in accordance with applicable laws and regulations.

**Methods and materials for containment and cleaning up;**

Immediately remove ignition sources nearby, and set up dry chemical powder or fire foam in preparation for ignition.

Do not walk over leaked materials more than necessary.

Use non-sparking tools.

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**Section 7: Handling and storage**

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**Precautions for safe handling****Protective measures:**

Install appropriate equipment and wear suitable protective apparatus described in "Section 8: Exposure controls/personal protection".

For protection against static electricity, grounding all equipment and use explosion proof (increased safety type) electric apparatus. Take necessary measures against static electricity. Wear electro conductive work clothes and shoes.

Use anti-spark tools.

Handle the product in a well-ventilated area and accordingly store in a closed container.

If used in a closed place, install sufficient local ventilation equipment and wear suitable protective equipments during work.

Do not handle until all safety precautions have been read and understood.

Wear protective equipment to prevent from exposure.

Do not use fire, spark or high temperature materials around the product.

Do not spray on an open flame.

Containers may burst when exposed to high temperatures.

When transporting, avoid making impacts on container or handling violently. Load so that falling, dropping off or damage will not occur.

Wear suitable protective equipment to avoid contact with skin, mucosa, clothing, or eyes.

Do not contact, inhale or swallow this product.

Use only outdoors or in a well-ventilated area.

**Advice on general occupational hygiene:**

Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities****Technical measures:**

In the storage area, install adequate light and ventilation systems to handle hazardous materials.

Take precautionary measures against static discharge.

**Incompatible materials:**

Strong oxidizers and strong alkali

**Conditions for safe storage:**

Keep out of reach of children.

Keep away from direct sunlight and store in a well ventilated place.

Because gas may leak or blow out from a rusted container, avoid storing this product in high-humidity environments near water sources.

Keep away from sources of ignition or heat.

Do not put this product at place over 40°C.

Electrical equipment used in the storage area must be explosion- proof and grounded.

**Packing material:**

Use the packaging container in accordance with regulations.

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**Section 8: Exposure controls/personal protection**

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**Occupational Exposure Limits;**

|                      |  |   |
|----------------------|--|---|
| OSHA PEL             | 400 ppm, 1,400 mg/m <sup>3</sup> (Ethyl acetate)                                   |   |
|                      | 250 ppm, 950 mg/m <sup>3</sup> ( iso-Propyl acetate)                               |   |
|                      | 150 ppm, 710 mg/m <sup>3</sup> ( <i>n</i> -Butyl acetate)                          |   |
|                      | 150 ppm, 700 mg/m <sup>3</sup> (Isobutyl acetate)                                  |   |
|                      | 100 ppm, 307 mg/m <sup>3</sup> (Methyl isobutyl ketone (Hexone))                   |   |
|                      | 50 ppm, 240 mg/m <sup>3</sup> (2-Butoxyethanol (EGBE))                             |   |
|                      | 100 ppm, 360 mg/m <sup>3</sup> (Propylene glycol mono methylether)                 |   |
|                      | 1,000ppm, 1,900 mg/m <sup>3</sup> (Ethyl alcohol)                                  |   |
|                      | 400 ppm, 980 mg/m <sup>3</sup> (iso-propyl alcohol)                                |   |
|                      | 1,000ppm, 2,400 mg/m <sup>3</sup> (Acetone)  |   |
|                      | 50 ppm, 180 mg/m <sup>3</sup> ( <i>n</i> -Hexane)                                  |   |
|                      | 50 ppm, 240 mg/m <sup>3</sup> (Diacetone alcohol)                                  |   |
|                      | 10 ppm, 30 mg/m <sup>3</sup> (Vinyl acetate)                                       |   |
|                      | 150 ppm, 713 mg/m <sup>3</sup> ( <i>n</i> -Butyl acetate)                          |   |
| ACGIH TLV-TWA (2014) | 150 ppm, 713 mg/m <sup>3</sup> (Isobutyl acetate)                                  |   |
|                      | 20 ppm, 82 mg/m <sup>3</sup> (Methyl isobutyl ketone (Hexone))                     |   |
|                      | 50 ppm, 240 mg/m <sup>3</sup> (2-Butoxyethanol (EGBE))                             |   |
|                      | 500 ppm, 1,188 mg/m <sup>3</sup> (Acetone)   |   |
|                      | 50 ppm, 238 mg/m <sup>3</sup> (Diacetone alcohol (5-Hydroxy-4-methyl-2-pentanone)) |   |
|                      | 10 ppm, 35 mg/m <sup>3</sup> (Vinyl acetate)                                       |   |
|                      | ACGIH TLV-STEL (2014)  | 200 ppm, 950 mg/m <sup>3</sup> ( <i>n</i> -Butyl acetate)       |
|                      |  | 75 ppm, 307 mg/m <sup>3</sup> (Methyl isobutyl ketone (Hexone)) |
|                      |  | 750 ppm, 1,782 mg/m <sup>3</sup> (Acetone)                      |
|                      |  | 15 ppm, 53 mg/m <sup>3</sup> (Vinyl acetate)                    |

**Appropriate engineering controls;**

Use explosion proof equipment.

Take precautionary measures against static discharge.

Install eye washer and safety shower around the handling place.

With the help of a ventilator, prevent the gas steam from staying afloat.

In handling this product, make sure that there are no high-temperature devices or potential ignition sources nearby.

If used indoor, install equipment to prevent workers from direct exposure, or provide local exhaust ventilation system to prevent workers exposed to vapors.



**Individual protection measures, such as personal protective equipment;**

|                          |  |
|--------------------------|--|
| Respiratory protection   | Wear gas mask for organic gases, dust mask and/or air-supplied respirator (in confined spaces) if necessary. |
| Hand protection          | Wear solvent resistance protective gloves if necessary.  |
| Eye protection           | Wear protective glasses (goggle or with a side plate) or face protector if necessary.                        |
| Skin and body protection | Wear protective clothing, boots or solvent resistance apron if necessary.                                    |

**Hygiene measure**

- Do not eat, drink or smoke during work.
- Wash hands thoroughly after handling.

**Section 9: Physical and chemical properties**

|  | Product Liquid        | Propellant (DME)   |
|--|-----------------------|--|
| Appearance<br>(physical state, color, etc.)    | Blue liquid           | Under atmospheric pressure: Clear and colourless liquefied gas<br>In pressure container: Clear and colourless liquid |
| Odor   | Solvent or sharp odor | Slight sweet odor  |
| Odor threshold                                 | No information        | No information   |
| pH   | Not applicable        | Not applicable   |
| Melting point/freezing point                   | -                     | -141.5°C   |
| Initial boiling point and boiling range        | 56.2~171°C            | -24.82°C   |
| Flash point                                    | -22°C                 | -41.1°C  |
| Evaporation rate                               | No information        | No information   |
| Flammability (solid, gas)                      | No information        | No information   |
| Upper/lower flammability or explosive limits   | No information        | No information   |
| Vapor pressure                                 | 24.6kPa (20°C)        | 0.41 MPa (20°C)  |
| Vapor density                                  | No information        | 1.59 (Air = 1)   |
| Relative density                               | No information        | No information   |
| Solubility (ies)                               | -                     | Water: 7.0 g/100 cc (18°C 760 mmHg)  |
| Partition coefficient: <i>n</i> -octanol/water | No information        | No information   |
| Auto-ignition temperature                      | No information        | No information   |
| Decomposition temperature                      | No information        | No information   |
| Viscosity                                      | No information        | No information   |
| Ignition point                                 | ≥ 244°C               | 350°C  |
| Range of explosion                             | 1.1~15.0vol%          | 3.4 - 24 vol%  |
| Specific gravity                               | ca. 0.8               | 0.661 (20°C)   |

**Other information**

No information

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**Section 10: Stability and reactivity**

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**Reactivity**

This product may explode at 40°C or above.  
Static electrical charge may induce explosion.

**Chemical stability**

This product is a flammable liquefied gas, which tends to form an explosive gas mixture with air.

**Possibility of hazardous reactions**

This product contains high-pressure gas. This product may explode due to heating and shock.  
The use of this product in cars may cause smothering or lack of oxygen. Thoroughly ventilate car after use. Before ventilating, make sure of the absence of ignition sources nearby.  
Keep in mind that the gas tends to stay afloat at lower positions.

**Conditions to avoid**

Storage under high temperature and humidity conditions and use near fire (ignition source such as flame or sparks).

**Incompatible materials**

Strong oxidizers and strong alkali

**Hazardous decomposition products**

May produce toxic gases (e.g. CO, NO<sub>x</sub>) by inflammation.

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**Section 11: Toxicological information**

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**Symptoms related to the physical, chemical and toxicological characteristics;**

Information on product:

|   |   |
|---|---|
| Acute toxicity (inhalation: vapors):              | This product is classified Category 5 by GHS classification.  |
| Acute toxicity (inhalation: mist):                | This product is classified Category 5 by GHS classification.  |
| Skin corrosion/irritation:                        | This product is classified Category 3 by GHS classification.  |
| Serious eye damage/irritation:                    | This product is classified Category 2A by GHS classification.   |
| Germ cell mutagenicity                            | This product is classified Category 1 by GHS classification.  |
| Reproductive toxicity:                            | This product is classified Category 1 by GHS classification.  |
| Specific target organ toxicity single exposure:   | This product is classified Category 1 (respiratory system) and Category 2 (liver) by GHS classification.  |
| Specific target organ toxicity repeated exposure: | This product is classified Category 1 (liver, kidneys, systemic toxicity, central nerve system and peripheral nervous system) and Category 2 (blood and nerve) by GHS classification. |
| Other toxicological information                   | Contact of liquefied gas with skin may cause inflammation or frostbite.   |

## Information on ingredients:

## Ethyl acetate

Acute toxicity (oral): Rat LD<sub>50</sub> = 5,620mg/kg  
Other toxicological information No information

## iso-Propyl acetate

Acute toxicity (oral): Rat LD<sub>50</sub> = 3,000mg/kg  
Other toxicological information No information

## Butyl acetate

Acute toxicity (oral): Rat LD<sub>50</sub> = 14,870 mg/kg  
Other toxicological information No information

*iso*-Butyl acetate

Acute toxicity (oral): Rat LD<sub>50</sub> = 15,400 mg/kg  
Other toxicological information No information

## Methyl isobutyl ketone

Acute toxicity (oral): Rat LD<sub>50</sub> = 2,080 mg/kg  
Carcinogenicity: Methyl isobutyl ketone is classified Group 2B by IARC.  
Other toxicological information No information

## Ethylene glycol mono-n-butyl ether

Acute toxicity (oral): Rat LD<sub>50</sub> = 500mg/kg  
Other toxicological information No information

## Propylene glycol mono-methylether

Acute toxicity (oral): Rat LD<sub>50</sub> = 6,600mg/kg  
Other toxicological information No information

## Ethyl alcohol

Acute toxicity (oral): Rat LD<sub>50</sub> = 7,060mg/kg  
Other toxicological information No information

## iso-propyl alcohol

Acute toxicity (oral): Rat LD<sub>50</sub> = 5,840mg/kg  
Carcinogenicity: iso-propyl alcohol is classified Group 3 by IARC.  
Other toxicological information No information

## Acetone

Acute toxicity (oral): Rat LD<sub>50</sub> = 6,800 mg/kg  
Other toxicological information No information

## n-Hexane

|                                 |                                    |
|---------------------------------|------------------------------------|
| Acute toxicity (oral):          | Rat LD <sub>50</sub> = 28,710mg/kg |
| Other toxicological information | No information                     |

## Diacetone alcohol

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Acute toxicity (oral):          | Rat LD <sub>50</sub> = 4,000mg/kg |
| Other toxicological information | No information                    |

## Vinyl acetate

|                                 |   |
|---------------------------------|---|
| Acute toxicity (oral):          | Rat LD <sub>50</sub> = 2,900 mg/kg            |
| Carcinogenicity:                | Vinyl acetate is classified Group 2B by IARC. |
| Other toxicological information | No information                                |

**Delayed and immediate effects and also chronic effects from short- and long-term exposure;**

- May cause an allergic skin reaction.
- Causes serious eye irritation.
- Harmful if inhaled.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.
- Causes damage to organs.
- Causes damage to organs through prolonged or repeated exposure.
- May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity (such as acute toxicity estimates);**

Acute toxicity was estimated based on ingredients of the product by additivity formula.

**Whether the chemical is listed in the NTP Report on Carcinogens or has been found to be a potential carcinogen in the IARC Monographs, or by OSHA;**

IARC: Group 2B (Methyl isobutyl ketone, Vinyl acetate, Titanium Oxide (IV)),  
Group 3 (Ethylene glycol mono-*n*-butyl ether, Cyclohexanone)  
NTP Report: Not listed  
OSHA: Not listed

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**Section 12: Ecological information**

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**Ecotoxicity:**

|                         |                |
|-------------------------|----------------|
| Information on product: | No information |
|-------------------------|----------------|

## Information on ingredients:

Polyvinyl chloride-polyvinyl acetate

|                           |                |
|---------------------------|----------------|
| Aquatic acute toxicity:   | No information |
| Aquatic chronic toxicity: | No information |

## iso-Propyl acetate

|                           |                |
|---------------------------|----------------|
| Aquatic acute toxicity:   | No information |
| Aquatic chronic toxicity: | No information |

## Ethyl acetate

Aquatic acute toxicity: Fish (*Cyprinus carpio*) 48h-TLm = 40 mg/L.  
Aquatic chronic toxicity: No information

## Butyl acetate

Aquatic acute toxicity: A toxicity rank for aquatic life is 100~10ppm.  
Aquatic chronic toxicity: No information

## iso-Butyl acetate

Aquatic acute toxicity: A toxicity rank for aquatic life is 1000ppm.  
Aquatic chronic toxicity: No information

## Methyl isobutyl ketone

Aquatic acute toxicity: Fish (*Carassius auratus auratus*) 24h-TLm = 460 mg/L  
Aquatic chronic toxicity: No information

## Ethylene glycol mono-n-butyl ether

Aquatic acute toxicity: Fish (*Carassius auratus auratus*) 24h-TLm = 1,700mg/L  
Aquatic chronic toxicity: No information

## Propylene glycol mono-methylether

Aquatic acute toxicity: No information  
Aquatic chronic toxicity: No information

## Ethyl alcohol

Aquatic acute toxicity: Fish (*Cyprinus carpio*) 96h-TLm = 18,000 mg/L.  
Aquatic chronic toxicity: No information

## iso-Propyl alcohol

Aquatic acute toxicity: Fish (*Pimephales promelas*) 96h-TLm = 9,640 mg/L.  
Aquatic chronic toxicity: No information

## Acetone

Aquatic acute toxicity: Fish (*Lepomis macrochirus*) 96h-TLm = 8,300 mg/L  
Aquatic chronic toxicity: No information

## n-Hexane

Aquatic acute toxicity: Do not discharge into drainage  
Aquatic chronic toxicity: No information

## Diacetone alcohol

Aquatic acute toxicity: Fish (*Carassius auratus auratus*) LC<sub>50</sub> = 12,250/8,930mg/L  
Aquatic chronic toxicity: No information

## Vinyl acetate

|                           |   |
|---------------------------|---|
|                           | Fish ( <i>Oryzias latipes</i> ) LC <sub>50</sub> = 2.39 mg/L        |
| Aquatic acute toxicity:   | Fish ( <i>Lepomis macrochirus</i> ) 96h-LC <sub>50</sub> = 18mg/L   |
|                           | Crustaceans ( <i>Daphnia magna</i> ) EC <sub>50</sub> = 52/330 mg/L |
| Aquatic chronic toxicity: | No information  |

## Aluminium

|                           |                |
|---------------------------|----------------|
| Aquatic acute toxicity:   | No information |
| Aquatic chronic toxicity: | No information |

## Dimethyl ether (as propellant)

|                           |                |
|---------------------------|----------------|
| Aquatic acute toxicity:   | No information |
| Aquatic chronic toxicity: | No information |

**Persistence and degradability:**

|                         |                |
|-------------------------|----------------|
| Information on product: | No information |
|-------------------------|----------------|

## Information on ingredients:

Polyvinyl chloride-polyvinyl acetate

No information

## Ethyl acetate

Readily degradable.

## iso-Propyl acetate

Readily degradable.

## Butyl acetate

Readily degradable.

## iso-Butyl acetate

Readily degradable.

## Methyl isobutyl ketone

Readily degradable.

## Ethylene glycol mono-methylether

Readily degradable.

## Ethyl alcohol

Readily degradable.

## iso-Propyl alcohol

Readily degradable.

Acetone

Degradable by activated sludge.

n-Hexane

Readily degradable.

Diacetone alcohol

Readily degradable.

Vinyl acetate

Readily degradable (degradation by BOD = 90%) and bioaccumulative potential is low.

Aluminium

Readily degradable.

Dimethyl ether (as propellant)

No information

**Bioaccumulative potential:**

Information on product: No information

**Mobility in soil:**

Information on product: No information

**Other adverse effects:**

No information available at this time. However, be careful because the leakage or disposal of the product may cause affects to the environment.

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**Section 13: Disposal considerations**

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**Waste treatment methods**

Dispose of material waste in accordance with governmental regulations.

Prevent release of material into natural.

Incinerate in a where permitted by appropriate federal, state and local regulations.

Comply with all federal, state and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

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**Section 14: Transport information**

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|   |                |
|---|----------------|
| <b>UN number</b>  | 1950           |
| <b>UN proper shipping name</b>  | AEROSOLS       |
| <b>Transport hazard class(es)</b>   | 2              |
| <b>Packing group</b>  | -              |
| <b>Environmental hazards</b>  | Applicable     |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and IBC code</b> | Not applicable |

**Special precautions for user**

On transportation, keep containers under 40°C.

Perform loading making sure that overrun, fall down, or any damage does not occur.

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**Section 15: Regulatory information**

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|                        |   |
|------------------------|---|
| <b>OSHA:</b>           | Hazardous chemical  |
| <b>TSCA inventory:</b> | These substances are on the inventory or exempt from listing. |
| <b>TSCA SNUR</b>       | Not listed  |

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**Section 16: Other information, including date of preparation or last revision**

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**Update history:**

Date of issue: 1st April, 2015

**References:**

Information of Tamiya, Inc.

ACGIH, American Conference of Governmental Industrial Hygienists (2014) TLVs and BEIs.

**[Disclaimer]**

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.