SAFETY DATA SHEET

Product identifier used on the	e label;	
Product name:	Tamiya Color Spray for Polycarbonate PS-12 Silver (#86012)	
Product code:	0401203012	
Other means of identification	•	
No information		
Recommended use of the cher	mical and restrictions o	on use;
Recommended use:	Polyvinyl chloride / polyvinyl acetate coatings (PS)	
Restrictions on use:	No information	
Name, address, and telephone	e number of the chemic	al manufacturer, importer, or other responsible
party;		
Name:	Tamiya, In	ю.
Department in Charge:	Internation	nal Division
Address:	3-7 Ondav	vara, 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@t	tamiya-inc.co.jp
Emergency phone number		
Section 2: Hazard(s) identific	ation	-286-5105 (Headquarters)
Section 2: Hazard(s) identific Classification of the chemical	ation	
Section 2: Hazard(s) identific	ation	ragraph (d) of §1910.1200;
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols	ation	-
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards	ation in accordance with pa	ragraph (d) of §1910.1200; Category 1
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation	ation in accordance with pa n - vapors):	ragraph (d) of §1910.1200; Category 1 Category 5
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation	ation in accordance with pa n - vapors):	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation:	ation in accordance with par n - vapors): n - mist):	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye	ation in accordance with par n - vapors): n - mist):	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye Skin sensitization:	ation in accordance with par n - vapors): n - mist):	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A Category 1
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye Skin sensitization: Carcinogenicity:	ation in accordance with par n - vapors): n - mist):	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A Category 1 Category 1 Category 2
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye Skin sensitization:	ation in accordance with par n - vapors): n - mist):	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A Category 1 Category 1 Category 2 Category 2 Category 2 Category 2
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye Skin sensitization: Carcinogenicity:	ation in accordance with par n - vapors): n - mist): irritation:	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A Category 1 Category 1 Category 2
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye Skin sensitization: Carcinogenicity: Reproductive toxicity:	ation in accordance with par n - vapors): n - mist): irritation: icity single exposure:	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A Category 2A Category 1 Category 2 Category 2 Cate
Section 2: Hazard(s) identific Classification of the chemical Physical Hazards Flammable aersols Health Hazards Acute toxicity (inhalation Acute toxicity (inhalation Skin corrosion/irritation: Serious eye damage/eye Skin sensitization: Carcinogenicity: Reproductive toxicity: Specific target organ toxi	ation in accordance with par n - vapors): n - mist): irritation: icity single exposure:	ragraph (d) of §1910.1200; Category 1 Category 5 Category 5 Category 2 Category 2A Category 1 Category 1 Category 2 Category 2 Category 2 Category 2 Category 2 Category 1 (respiratory system and central nerves)

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;

Danger

central nerves)

Symbol(s)



H315: Causes skin irritation

H222: Extremely flammable aerosol

H319: Causes serious eye irritation H333: May be harmful if inhaled H351: Suspected of causing cancer

H229: Pressurized container: may burst if heated

H361: Suspected of damaging fertility or the unborn child H370: Causes damage to organs (respiratory system and

H372: Causes damage to organs (kidneys, systemic toxicity, central nervous system, lungs, and peripheral nervous system)

H373: May cause damage to organs (liver, blood and testicle)

H317: May cause an allergic skin reaction

H371: may cause damage to organs(liver)

through prolonged or repeated exposure

through prolonged or repeated exposure

H402: Harmful to aquatic life

Signal word Hazard Statement(s)

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.
P233: Keep container tightly closed.
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.

	Date of issue: 31st March, 2015
	P251: Pressurized container: Do not pierce or burn, even after
	use.
	P260: Do not breathe dust/fume/gas/mist/ vapors/spray.
	P264: Wash hands thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P272: Contaminated work clothing must not be allowed out of
	the workplace.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye
	protection/face protection.
[Emergency response]	P302+P352: If on skin: Wash with plenty of water.
[Emergency response]	P303+P361+P353: If on skin (or hair): Take off immediately
	all contaminated clothing. Rinse skin with water/shower.
	P304+P340: If inhaled: Remove person to fresh air and keep
	comfortable for breathing.
	6
	P305+P351+P338: If in eyes: Rinse cautiously with water for
	several minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
	P308+P311: If exposed or concerned: Call a poison
	center/doctor.
	P308+P313: If exposed or concerned: Get medical
	advice/attention.
	P312: Call a poison center/doctor/if you feel unwell.
	P314: Get medical advice/attention if you feel unwell.
	P333+P313: If skin irritation or rash occurs: Get medical
	advice/attention.
	P337+P313: If eye irritation persists: Get medical
	advice/attention.
	P363: Wash contaminated clothing before reuse.
	P370+P378: In case of fire: Use suitable extinguishing media
	to extinguish.
[Storage]	P403+P235: Store in a well-ventilated place. Keep cool.
	P405: Store locked up.
	P410+P412: Protect from sunlight. Do not expose to
	temperatures exceeding 40°C/104 °F.
[Disposal]	P501: Dispose of contents/container in accordance with
-	local/regional/national/international regulations.

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/informatio	n on ingredients
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Chemical name	CAS No.	Concentration/ concentration ranges (wt %)	Chemical Formula
Polyvinyl chloride-polyvinyl acetate	-	5 - 10	-
Butyl acetate	123-86-4	5 - 10	$C_{6}H_{12}O_{2}$
iso-Butyl acetate	110-19-0	1 - 5	$C_{6}H_{12}O_{2}$
Methyl isobutyl ketone	108-10-1	5 - 15	$C_6H_{12}O$
Propylene glycol mono-methylether acetate	108-65-6	1 - 5	$C_6H_{12}O_3$
3-Methoxy butyl acetate	4435-53-4	<1	$C_7 H_{14} O_3$
iso-butyl alcohol	78-83-1	1~5	$C_4H_{10}O$
Acetone	67-64-1	1 - 5	C_3H_6O
n-Hexane	110-54-3	4.2	$C_{6}H_{14}$
Diacetone alcohol	123-42-2	1 - 5	$C_{6}H_{12}O_{2}$
Mineral spirit	64741-68-0 64742-81-0	1 - 5	
Vinyl acetate	108-05-4	0.4	C_4H_6O
Aluminum	7429-90-5	1 - 5	Al
Other ingredients	-	< 5	-
Dimethyl ether (as propellant)	115-10-6	45 - 55	C_2H_6O

Compositions (contents of the product)

Section 4: First-aid measures

Necessary first-aid measures by relevant routes of exposure;

j	I ,
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.
	If appearance changes or pain occur, get medical
	advice/attention.

IF IN EYES	Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
	rinsing.
	If pain continues, immediately get medical advice/attention.
IF SWALLOWED	As this product is volatile, vomiting may increase risk.
	Immediately get medical advice/attention.
	Wash mouth out thoroughly with water.

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

Section 5: Fire-fighting measures

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_X).

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

Section 6: Accidental release measures

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.

Section 7: Handling and storage

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.

Occupational Exposure Limits;	
OSHA PEL	150 ppm, 710 mg/m ³ (<i>n</i> -Butyl acetate)
	150 ppm, 700 mg/m ³ (Isobutyl acetate)
	100 ppm, 307 mg/m ³ (Methyl isobutyl ketone
	(Hexone))
	100 ppm, 541 mg/m ³ (Propylene glycol monomethyl
	ether acetate)
	100 ppm, 300 mg/m ³ (Isobutanol (Isobutyl alcohol))
	1,000ppm, 2,400 mg/m ³ (Acetone)
	50 ppm, 180 mg/m ³ (n-Hexane)
	50 ppm, 240 mg/m ³ (Diacetone alcohol
	(5-Hydroxy-4-methyl-2-pentanone))
	10 ppm, 30 mg/m ³ (Vinyl acetate)
ACGIH TLV-TWA (2014)	150 ppm, 713 mg/m ³ (<i>n</i> -Butyl acetate)
	150 ppm, 713 mg/m ³ (Isobutyl acetate)
	20 ppm, 82 mg/m ³ (Methyl isobutyl ketone (Hexone))
	50 ppm, 152 mg/m ³ (Isobutanol (Isobutyl alcohol))
	500 ppm, 1,188 mg/m ³ (Acetone)
	50 ppm (n-Hexane)
	50 ppm, 238 mg/m ³ (Diacetone alcohol
	(5-Hydroxy-4-methyl-2-pentanone))
	10 ppm, 35 mg/m ³ (Vinyl acetate)
ACGIH TLV-STEL (2014)	200 ppm, 950 mg/m ³ (<i>n</i> -Butyl acetate)
	75 ppm, 307 mg/m ³ (Methyl isobutyl ketone
	(Hexone))
	750 ppm, 1,782 mg/m ³ (Acetone)
	50 ppm (Cyclohexanone)
	15 ppm, 53 mg/m ³ (Vinyl acetate)

Section 8: Exposure controls/personal protection

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;

Wear gas mask for organic gases, dust mask and/or	
air-supplied respirator (in confined spaces) if necessary.	
Wear solvent resistance protective gloves if necessary.	
Wear protective glasses (goggle or with a side plate) or face	
protector if necessary.	
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	Silver liquid	Under atmospheric pressure: Clear
(physical state, color, etc.)		and colourless liquefied gas
		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	-	-141.5°C
point		
Initial boiling point and	56.2 - 171.2°C	-24.82°C
boiling range		
Flash point	-22°C	-41.1°C
Evaporation rate	No information	No information
Flammability (solid, gas)	No information	No information
Upper/lower flammability	No information	No information
or explosive limits		
Vapor pressure	24.6 KPa (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:	No information	No information
<i>n</i> -octanol/water		
Auto-ignition temperature	No information	No information
Decomposition temperature	No information	No information
Viscosity	No information	No information
Ignition point	\geq 244°C	350°C
Range of explosion	1.1 - 15.0 vol%	3.4 - 24 vol%
Specific gravity	ca. 0.9	0.661 (20°C)

Other information

No information

Section 10: Stability and reactivity

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_X) by inflammation.

Section 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics;

Information on product:

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

Information on ingredients: Butyl acetate	
Acute toxicity (oral):	Rat $LD_{50} = 14,870 \text{ mg/kg}$
Other toxicological information	No information
iso-Butyl acetate	
Acute toxicity (oral):	Rat $LD_{50} = 15,400 \text{ mg/kg}$
Other toxicological information	No information
Methyl isobutyl ketone	
Acute toxicity (oral):	Rat $LD_{50} = 2,080 \text{ mg/kg}$
Carcinogenicity:	Methyl isobutyl ketone is classified Group 2B by IARC.
Other toxicological information	No information
Propylene glycol mono-methylether aceta	te
Acute toxicity (oral):	Rat $LD_{50} = 8,532 \text{ mg/kg}$
Other toxicological information	No information
3-Methoxy butyl acetate	
Acute toxicity (oral):	Rat $LD_{50} = 4,210 \text{ mg/kg}$
Other toxicological information	No information
iso-Butyl alcohol	
Acute toxicity (oral):	Rat $LD_{50} = 2,460 \text{ mg/kg}$
Other toxicological information	No information
Acetone	
Acute toxicity (oral):	Rat $LD_{50} = 6,800 \text{ mg/kg}$
Other toxicological information	No information
n-Hexane	
Acute toxicity (oral):	Rat LD ₅₀ =28,710 mg/kg
Other toxicological information	No information
Diacetone alcohol	
Acute toxicity (oral):	Rat $LD_{50} = 4,000 \text{ mg/kg}$
Other toxicological information	No information
Vinyl acetate	
Acute toxicity (oral):	Rat $LD_{50} = 2,900 \text{ mg/kg}$
Carcinogenicity:	Vinyl acetate is classified Group 2B by IARC.
Other toxicological information	No information

Titanium Oxide (IV)

Carcinogenicity:Titanium Oxide (IV) is classified Group 2B by IARC.Other toxicological informationNo 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.

Section 12: Ecological information	
Ecotoxicity:	
Information on product:	No information
Information on ingredients:	
Polyvinyl chloride-polyvinyl acetate	
Aquatic acute toxicity:	No information
Aquatic chronic toxicity:	No information
Butyl acetate	
Aquatic acute toxicity:	A toxicity rank for aquatic life is $100 \sim 10$ ppm.
Aquatic chronic toxicity:	No information
1 5	
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
1	
3-methoxybutyl acetate	
Aquatic acute toxicity:	Zebrafish TLm 96h 7.1ppm
Aquatic chronic toxicity:	No information
1	
iso-Butyl alcohol	
Aquatic acute toxicity:	Fish (Carassius auratus auratus) 24h-TLm = 2,600 mg/L
Aquatic chronic toxicity:	No information

Acetone

Aquatic acute toxicity: Aquatic chronic toxicity:

n-Hexane

Aquatic acute toxicity: Aquatic chronic toxicity:

Diacetone alcohol

Aquatic acute toxicity: Aquatic chronic toxicity:

Vinyl acetate

Aquatic acute toxicity:

Aquatic chronic toxicity:

Aluminum

Aquatic acute toxicity: Aquatic chronic toxicity:

Dimethyl ether (as propellant)

Aquatic acute toxicity: Aquatic chronic toxicity:

Persistence and degradability:

Information on product:

Information on ingredients: Polyvinyl chloride-polyvinyl acetate No information

Butyl acetate Readily degradable.

iso-Butyl acetate Readily degradable.

Methyl isobutyl ketone Readily degradable. Tamiya Color Spray PS-12 Tamiya, Inc. Page13 of 15 Date of issue: 31st March, 2015

No information Do not discharge into drainage. No information Fish (*Carassius auratus auratus*) $LC_{50} = 12,250/8,930$ mg/L No information Fish (Oryzias latipes) $LC_{50} = 2.39$ mg/L

Fish (*Lepomis macrochirus*) 96h-TLm = 8,300 mg/L

Fish (*Depomis macrochirus*) $PC_{50} = 2.39$ mg/L Fish (*Lepomis macrochirus*) $P6h-LC_{50} = 18$ mg/L Crustaceans (*Daphnia magna*) $EC_{50} = 52/330$ mg/L No information

No information No information

No information No information

No information

Propylene glycol mono-methylether acetate Readily degradable.

3-Methoxy butyl acetate Readily degradable.

iso-Butyl alcohol

Readily degradable.

Acetone

Degradable by activated sludge.

n-Hexane

No information

Diacetone alcohol

Readily degradable.

Mineral spirit

No information

Vinyl acetate

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

Aluminium

No information

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.

Section 13: Disposal considerations

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.

Section 14: Transport information	
UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2
Packing group	-
Environmental hazards	Applicable
Transport in bulk according to Annex II of MARPOL 73/78 and IBC code	
	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.

Section 15: Regulatory information	
OSHA:	Hazardous chemical
TSCA inventory:	These substances are on the inventory or exempt from listing.
TSCA SNUR	Not listed

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

Update history:

Date of issue: 31st March, 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.