Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name Tamiya PS Spray Paints (Range of Colours)
Contains Titanium Dioxide, Methyl isobutyl ketone, Isobutyl acetate, Hexane, Butyl acetate
U.F.I.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Aerosolised synthetic spray paints for model and hobby crafts

1.3. Details of the supplier of the safety data sheet

Name: The Hobby Company Ltd (***HobbyCo Ltd***)

Address: Garforth Place
Knowlhill
Milton Keynes
MK5 8PG

Telephone: +44 (0)1908 605 686

Email: service@hobbyco.net

1.4. Emergency telephone

For Great Britain:

111 for non-emergencies
999 for life-threatening emergencies

For Northern Ireland:

Telephone your GP for non-emergencies (during working hours)
Outside working hours, use the number for your area in the table below:

Area/town	Telephone
North and West Belfast	028 9074 4447
South and East Belfast	028 9079 6220
Ards and North Down	028 9182 2344
Lisburn and Downpatrick	028 9260 2204
Antrim Ballymena Ballymoney Cookstown Carrickfergus Coleraine Larne Magherafelt Moyle Newtownabbey council areas	028 2566 3500

Area/town	Telephone
Armagh and Dungannon Craigavon and Banbridge Newry and Mourne	028 3839 9201
Enniskillen Omagh Strabane Derry/Londonderry Limavady	028 7186 5195

999 for life-threatening emergencies

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aerosol Category 1, H222, H229
Skin Irritation Category 2, H315
Eye Irritation Category 2, H319
Specific Target Organ Toxicity Single Exposure Category 3, H336
Carcinogen Category 2, H351
Specific Target Organ Toxicity Repeat Exposure Category 2, H373
Aquatic Chronic Toxicity Category 2, H411

2.2. Label elements

Pictograms:

Signal Word: Danger

Hazard Statements:

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep out of the reach of children. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Supplemental information on the label:

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains formaldehyde. May produce an allergic reaction.

Label information where small pack derogation applies (<125ml):

Pictograms:

Signal Word: Danger

Hazard Statements:

Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep out of the reach of children. Read label before use. Use only outdoors or in a well-ventilated area.

Supplemental information on the label:

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains formaldehyde. May produce an allergic reaction.

2.3. Other hazards

Contains a substance which is known to be Persistent, Bioaccumulative and Toxic.

Substance Name	Identification numbers	PBT/vPvB
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	25973-55-1	PBT

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance name	Identification numbers (CAS, EC, Index)	% w/w or % v/v	REACH reg. no	CLP Classification	M-factors, SCLs, ATEs	Notes
Propylenglycol Monomethylether	107-98-2	1.00%-5.00%		Flam. Liq. 3; H226 STOT SE 3; H336		*
Vinyl acetate	108-05-4	0.01%-0.60%		Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT SE 3; H335 Carc. 2; H351 Aquatic Acute 3; H412		*

Methyl isobutyl ketone	108-10-1	0.1%-15.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H336 Carc. 2; H351i		*
iso-Propyl acetate	108-21-4	0.10%-1.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		*
Propylenglycol Monomethylether acetate	108-65-6	0.01%-5.00%		Flam. Liq. 3; H226 STOT SE 3; H336		*
Diisobutyl ketone	108-83-8	1.00%-5.00%		Flam. Liq. 3; H226 STOT SE 3; H335		*
Cyclohexanone	108-94-1	0.01%-1.00%		Flam. Liq. 3; H226 Acute Tox. 4; H332		*
Isobutyl acetate	110-19-0	1.00%-15.00%		Flam. Liq. 2; H225 STOT SE 3; H336 EUH018		*
n-Hexane	110-54-3	1.00%-4.99%		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361 STOT RE 1; H372 Aquatic Chronic 2; H411	STOT RE 1: ≥ 5 %	*
Butyl cellosolve	111-76-2	0.10%-5.00%		Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332		*
Propellant（DME)	115-10-6	30.00%-65.00%		Flam. Gas 1; H220 Press. Gas (Comp.); H280		*
Mica	12001-26-2	0.10%-5.00%		not classified		*
Diacetone alcohol	123-42-2	0.10%-10.00%		Eye Irrit. 2; H319	Eye Irrit. 2: ≥10%	*
Butyl acetate	123-86-4	0.10%-10.00%		Flam. Liq. 3; H226 STOT SE 3; H336 EUH018		*
iso-amyl acetate	123-92-2	5.00%-15.00%		Flam. Liq.: 3; H226		*
C.I. Pigment Red 101	1309-37-1	0.10%-5.00%		not classified		*
C.I. Pigment Black 7	1333-86-4	0.01%-5.00%		not classified		*
C.I. Pigment White 6	13463-67-7	0.01%-10.00%		classified H351i in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm;		Note 10 Note W *
Zinc oxide	1314-13-2	0.10%-2.49%		Aquatic Acute 1; H400 Aquatic Chronic 1; H410	Chronic M – 1 Acute M – 1	
Ethyl acetate	141-78-6	0.01%-1.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319		*

				STOT SE 3; H335 STOT SE 3; H336		
Ultraviolet stabilizers	25973-55-1	0.10%-0.50%		STOT RE 2; H373 (liver)(kidney)(oral) Aquatic Chronic 4; H413		PBT SVHC
CI Pigment White 21	7727-43-7	0.01%-1.00%		not classified		*
Ethyl alcohol	64-17-5	0.01%-5.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319		*
Heavy catalytic reformed naphtha (petroleum)	64741-68-0	0.01%-0.99%		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361 Aquatic Chronic 2; H411		
Aromatic hydrocarbon	64742-95-6	0.01%-0.99%		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Muta. 1B; H340 Carc. 1B; H350 Repr. 2; H361f Aquatic Chronic 2; H411		
Alkylcyclohexan	64742-48-9	0.10%-0.99%		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361d Aquatic Chronic 2; H411		
Isopropyl alcohol	67-63-0	0.01%-5.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		*
Acetone	67-64-1	0.10%-15.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		*
Aluminium	7429-90-5	0.01%-5.00%		Flam. Sol. 2; H228 Water-react; H261		*
iso-Butanol	78-83-1	0.01%-7.50%		Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 STOT SE 3 H336		*
sec-Butanol	78-92-2	2.50%-7.50%		Flam. Liq.; H226 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336		*
Methyl ethyl ketone	78-93-3	7.50-10.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		*
Formaldehyde	50-00-0	0-0.01%		Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H311 Skin Corr. 1B ; H314 Skin Sens. 1 ; H317	Eye Irrit. 2; H319: 5 % ≤ C < 25 % STOT SE 3; H335: C	*

				Muta. 2; H341 Carc. 1B H350	≥ 5 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 5 % ≤ C < 25 % Skin Sens. 1; H317: C ≥ 0,2 %	

*Substances with an occupation exposure limit. For further information, see section 8.1.

Note 10 - The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Note W - It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Contains a substance at >0.1% which is considered a substance of very high concern in accordance with Regulation 1907/2006 as amended. For more information see section 15.

For the full text of H-Statements referred to under Sections 2 and 3 of the SDS, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled aerosol or sprayed material, remove immediately to fresh air. If breathing is difficult, get immediate medical attention. Keep afflicted person awake, warm and at rest. Properly trained persons may administer oxygen.
If in contact with skin, wash immediately with soap and water. Wash contaminated clothing before reuse. If symptoms occur, seek medical attention.
In case of contact with eyes, immediately flush with water for at least 20 minutes. Remove contact lenses (if present) and continue rinsing. Get medical attention.
If swallowed DO NOT INDUCE VOMITING. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation of dust or spray will cause coughing wheezing and shortness of breath. Use in poorly ventilated or enclosed areas may result in drowsiness, dizziness, headaches, confusion and nausea. Contact with skin and eyes will cause redness, rash, itching and discomfort.

Intentional misuse or overexposure to aerosols may be harmful or fatal.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water fog, dry chemical or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Aerosols are extremely flammable. In the event of a fire, aerosol spray containers may become over-pressurised and rupture releasing flammable contents. Vapours may ignite explosively creating fireballs and/or flaming missiles spreading the fire over a greater area. Ruptured containers may become projectiles or shrapnel.

Containers should be kept cool in the event of a fire. Do not spray on or near naked flames. Do not pierce or burn aerosols, even after use. Dispose of containers correctly (see section 13).

Users should note that paint accessories, brushes, cloths etc… should also be considered flammable once used.

Combustion products will include carbon monoxides and carbon dioxides.

5.3. Advice for firefighters

In the event of fire, wear appropriate protective equipment and self-contained breathing apparatus (SCBA). Firefighter clothing must conform to a minimum standard of EN469 including helmets, protective boots and gloves. Use shielding to protect against rupturing containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilled material. Keep unnecessary persons away from the spillage. Prevent inhalation of spray, or creation of dusts/flakes of dried material. Use appropriate personal protective equipment to prevent direct contact with the material.

Emergency personnel should take into account the volume of the spillage and the likelihood of direct contact when selecting appropriate personal protective equipment. Do not breath mists or sprays.

6.2. Environmental precautions

Keep spills away from drains, surface water, groundwater, wells and boreholes or other infrastructure which may allow spills into groundwater.

6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so. Absorb spillage with inert dry material such as sand, earth or vermiculite and place in an appropriate non-flammable waste disposal container, avoiding the creation of dusts or respirable particulates. Dispose of via a licensed disposal contractor. Do not place into domestic waste. Do not flush into drains or watercourses.

6.4. Reference to other sections

See section 8 for information on personal protective equipment
See section 13 for additional waste disposal information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not breathe spray or mists. Do not eat drink or smoke whilst handling product. If product has dried, minimise flaking or creation of dusts and fine particulates.

If sanding models which have been painted with this product, wear a dust mask with particulate filter to prevent inhalation of dusts.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original container. Store upright to prevent spills or leakage. Do not tamper or attempt to open the spray fitting.

Do not pierce or burn empty containers.

Store out of direct sunlight. Do not freeze.

7.3. Specific end use(s)

Hobby/Craft synthetic paint for spray application. Supplied in aerosol containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace or Occupational Exposure Limits

UK Workplace Exposure Limits (EH40)

Substance	CAS #	Short Term Exposure Limit (STEL)	Long Term Exposure Limit (TWA)	Notes
Propylenglycol Monomethylether	107-98-2	150 ppm 560 mg/m^3	100 ppm 375 mg/m3	(skin)
Vinyl acetate	108-05-4	10 ppm 35.2 mg/m^3	5 ppm 17.6 mg/m^3	
Methyl isobutyl ketone	108-10-1	100 ppm 416 mg/m^3	50 ppm 208 mg/m^3	(skin)
Iso-propyl acetate	108-21-4	200 ppm 849 mg/m^3		
Propylenglycol Monomethylether acetate	108-65-6	100 ppm 548 mg/m^3	50 ppm 274 mg/m^3	(skin)
Diisobutyl ketone	108-83-8		25 ppm 148 mg/m^3	
Cyclohexanone	108-94-1	20 ppm 82 mg/m^3	10 ppm 41 mg/m^3	(skin)
Iso-butyl acetate	110-19-0	187 ppm 903 mg/m^3	150 ppm 724 mg/m^3	
n-hexane	110-54-3		20 ppm 72 mg/m^3	
Butyl cellosolve	111-76-2	50 ppm 246 mg/m^3	25 ppm 123 mg/m^3	(skin)

Dimethyl ether	115-10-6	500 ppm 958 mg/m^3	400 ppm 766 mg/m^3	
Diacetone alcohol	123-42-2	75 ppm 362 mg/m^3	50 ppm 241 mg/m^3	
Mica	12001-26-2		10 mg/m^3 (Inhalable) 0.8 mg/m^3 (Respirable)	
Butyl acetate	123-86-4	200 ppm 966 mg/m^3	150 ppm 724 mg/m^3	
CI Pigment Red 101	1309-37-1	10 mg/m^3	5 mg/m^3	
CI Pigment Black 7	1333-86-4	7 mg/m^3	3.5 mg/m^3	
CI Pigment White 6	13463-67-7		10 mg/m^3 (Inhalable) 4 mg/m^3 (Respirable)	
Ethyl Acetate	141-78-6	400 ppm 1468 mg/m^3	200 ppm 734 mg/m^3	
CI Pigment White 21	7727-43-7		10 mg/m^3 (Inhalable) 4 mg/m^3 (Respirable)	
Ethyl alcohol	64-17-5		1000 ppm 1920 mg/m^3	
Iso-propyl alcohol	67-63-0	500 ppm 1250 mg/m^3	400 ppm 999 mg/m^3	
Acetone	67-64-1	1500 ppm 3620 mg/m^3	500 ppm 1210 mg/m^3	
Aluminium	7429-90-5		10 mg/m^3 (Inhalable) 4 mg/m^3 (Respirable)	
Iso-Butanol	78-83-1	75 ppm 231 mg/m^3	50 ppm 154 mg/m^3	
Sec-Butanol	78-92-2	150 ppm 462 mg/m^3	100 ppm 308 mg/m^3	
Methyl ethyl ketone	78-93-3	300 ppm 899 mg/m^3	200 ppm 600 mg/m^3	(skin)
Formaldehyde	50-00-0	2 ppm 2.5 mg/m^3	2 ppm 2.5 mg/m^3	

UK Biological Monitoring Guidance Values

Substance	**CAS #**	**Monitoring Guidance**
Methyl isobutyl ketone	108-10-1	20 µmol substance/L in urine post-shift
Cyclohexanone	108-94-1	2 mmol cyclohexanol/mol creatine in urine post-shift
2-Butoxyethanol	111-76-2	240 mmol butoxyacetic acid/mol creatinine in urine post-shift
Methyl ethyl ketone	78-93-3	70 µmol Methyl ethyl ketone/L in urine post-shift
Butyl cellosolve	111-76-2	240 mmol butoxyacetic acid/mol creatinine in urine post-shift

European Union Workplace Exposure Limits

Substance	**CAS #**	**Short Term Exposure Limit (STEL)**	**Long Term Exposure Limit (TWA)**	**Notes**

Propylenglycol Monomethylether	107-98-2	100 ppm 375 mg/m3	150 ppm 568 mg/m^3	(skin)
Vinyl acetate	108-05-4	10 ppm 35.2 mg/m^3	20 ppm 83 mg/m^3	
Methyl isobutyl ketone	108-10-1	50 ppm 208 mg/m^3	20 ppm 83 mg/m^3	
Propylenglycol Monomethylether acetate	108-65-6	100 ppm 550 mg/m^3	50 ppm 275 mg/m^3	(skin)
Cyclohexanone	108-94-1	20 ppm 81.6 mg/m^3	10 ppm 40.8 mg/m^3	(skin)
Iso-butyl acetate	110-19-0	150 ppm 723 mg/m^3	50 ppm 241 mg/m^3	
n-hexane	110-54-3		20 ppm 72 mg/m^3	
Butyl cellosolve	111-76-2	50 ppm 246 mg/m^3	20 ppm 98 mg/m^3	(skin)
Dimethyl ether	115-10-6		1000 ppm 1920 mg/m^3	
Butyl acetate	123-86-4	150 ppm 723 mg/m^3	50 ppm 241 mg/m^3	
Iso-amyl acetate	123-92-2	100 ppm 550 mg/m^3	50 ppm 270 mg/m^3	
Ethyl Acetate	141-78-6	400 ppm 1468 mg/m^3	200 ppm 734 mg/m^3	
Acetone	67-64-1		500 ppm 1210 mg/m^3	
Methyl ethyl ketone	78-93-3	300 ppm 900 mg/m^3	200 ppm 600 mg/m^3	
Formaldehyde	50-00-0	0.6 ppm 0.74 mg/m^3	0.3 ppm 0.37 mg/m^3	

8.2. Exposure controls

Use outdoors or in a well ventilated area. If ventilation is inadequate and/or exposure exceeds the workplace exposure limits then local exhaust ventilation and respiratory protection should be used.

When using respiratory protection, the recommendation is a combination particulate filter and organic vapour filter.

Clothing should be washed before reuse. If prolonged skin contact is expected, glove use may be advisable. Recommended glove material – Nitrile rubber, thickness 3mm. Instructions and information provided by the manufacturer on storage, maintenance and replacement must be followed to ensure protection and effectiveness.

This glove type may not be appropriate for all conditions and environments. It is recommended to obtain independent professional advice and complete a risk assessment specific to your application and working environment. The user must check that the final glove choice is suitable.

Whilst spraying, users should wear appropriate eye protection such as safety glasses with side shields. Never spray into the wind.

Always handle in accordance with good safety practice and hygiene. Do not eat, drink or smoke whilst handling product. Wash hands thoroughly after use.

Prevent build up of vapours by opening doors and windows. If you become light headed, nauseous or drowsy at any time whilst using the product, immediately cease use and move to fresh air. Overexposure to aerosols can be harmful or fatal.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol

Colour: colour varies with product, check label

Odour and odour threshold: Ketone

Melting point/ freezing point: Not determined

Boiling point: -24 °C

Flammability (if solid or gas): Not determined

Lower and upper flammability or explosive limits: 2.8 – 24.4 Vol-%

Flash point: -40 °C

Auto-ignition temperature: 240 °C

Decomposition temperature: Not determined

pH: Not determined

Kinematic viscosity: Not determined

Solubility: Not determined

Partition coefficient: n-octanol/water: Not determined

Vapour pressure: Not determined

Density: 2.1146 – 2.1165 kg/m³ @ 0°C

Relative density: 1.63

Relative vapour density: Not determined

Particle characteristics: Not determined

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Avoid high temperatures and direct sunlight.

10.5. Incompatible materials

Avoid: strong oxidizers

10.6. Hazardous decomposition products

There are no known dangerous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation EC No 1272/2008

Acute toxicity

Based on the available data, the classification criteria have not been met

Product/ ingredient name	Result	Species	Dose	Exposure
Cyclohexanone	> 6.2 mg/L	Rat	LC50 Vapour	4h inhalation

Irritation/ Corrosion

On the basis of calculation method, the product is classified as irritating to skin and eyes

Product/ ingredient name	Target and result	Species	Score	Exposure	Observation
Methyl ethyl ketone	OECD guideline 404	Rabbit	-	4 hours	No irritation observed
sec-Butanol	OECD guideline 405	Rabbit	-	Single exposure	Effects fully reversible in 14 days
Ethyl alcohol	OECD guideline 405	Rabbit	-	Single exposure	Effects fully reversable in 14 days
Methyl isobutyl ketone	OECD guideline 405	Rabbit	-	Single exposure	Fully reversable
Hexane	OECD guideline 404	Rabbit	primary dermal irritation index (PDII) 1.92 out of 3	24 hours	-
Diacetone alcohol	OECD Guideline 405	Rabbit	-	Single exposure	Slight to moderate irritation. Fully reversable within 21

					days
iso-Butanol	OECD Guideline 405	Rabbit	-	24 hours	Corrosive, not all parameters fully reversable in 14 days

Sensitisation

On the basis of calculation method, the classification criteria have not been met. However, in individuals that have already been sensitised to Formaldehyde, this product may elicit an allergic skin reaction.

Product/ ingredient name	Route of exposure	Species	Result
Formaldehyde	Skin	Humans	Documented anaphylaxis

Mutagenicity

Based on available data the classification criteria have not been met

Product/ ingredient name	Test	Experiment	Result
Aromatic hydrocarbon	API procedure (see Reference). Similar to OECD test guideline 476.	In-vitro	Negative

Carcinogenicity

On the basis of calculation method, the product is suspected of causing cancer

Product/ ingredient name	Test	Experiment	Result
Methyl isobutyl ketone	OECD guideline 451	Inhalation, Vapour	Carcinogenic effects in rats: liver/kidneys
Titanium dioxide	No guideline followed	Oral	No tumours related to TiO_2
Vinyl acetate	OECD Guideline 453	Oral: drinking water	Carcinogenic effects: upper digestive tract
Aromatic hydrocarbon	OECD Guideline 451	Inhalation, Vapour	Carcinogenic effects in rats and mice

Reproductive toxicity

Based on available data the classification criteria have not been met

Product/ ingredient name	Maternal toxicity	Fertility	Development toxicity	Species	Methods
Hexane	-	Effects on	-	Rat	OECD

		fertility			guidelines 403
Aromatic hydrocarbon	-	No adverse effects	-	Rats	OECD Guideline 416
Alkylcyclohexan	No adverse effects	-	No adverse effects	Rats	OECD Guideline 414

Specific target organ toxicity (single exposure)

On the basis of calculation method the product may cause narcotic effects including drowsiness and dizziness.

Product/ ingredient name	Category	Route of exposure	Target organs
Isobutyl acetate	Category 3	Inhalation	Narcotic effect
Methyl isobutyl ketone	Category 3	Inhalation	Kidney
Butyl Acetate	Category 3	Inhalation	Narcotic effect
Hexane	Category 3	Inhalation	Narcotic effect

Specific target organ toxicity (repeated exposure)

On the basis of calculation method, the product is suspected of causing damage to the central nervous system through prolonged or repeated exposure if ingested

Product/ ingredient name	Category	Route of exposure	Target organs
Hexane	Category 1	Oral	Nervous system

Aspiration hazard

Based on available data the classification criteria have not been met

11.2. Information on other hazards

This product does not contain constituents known to cause endocrine disruption to human health

Intentional misuse or overexposure to aerosols may be harmful or fatal.

SECTION 12: Ecological information

12.1. Toxicity

On the basis of calculation method, the product is expected to be toxic to aquatic life with long lasting effects

Product/ ingredient name	Result	Species	Exposure (time)
Zinc oxide	0.112 – 2.92 mg/L	Thymallus arcticus	96h LC50
	0.457 – 1.060 mg/L	Daphnia magna	48h EC50
	0.136 mg/L	Raphidocelis subcapitata	72h EC50

12.2. Persistence and degradability

Product/ ingredient name	Test	Result	Dose	Inoculum
Ultaviolet stabiliser	OECD Guideline 301 B	2% / 28 days	10 mg/L	activated sludge, domestic, non-adapted

12.3. Bioaccumulative potential

Product/ ingredient name	Log Pow	BCF	Potential
Ultaviolet stabiliser		>5000	Bioaccumulative

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

Contains a substance which is known to be Persistent, Bioaccumulative and Toxic.

Substance Name	Identification numbers	PBT/vPvB
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (Ultraviolet Stabiliser)	25973-55-1	PBT

12.6. Endocrine disrupting properties

This product does not contain constituents known to cause endocrine disruption to the environment

12.7. Other adverse effects

No other information known on other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste generation should be avoided or minimised where possible. Surplus, unused products should be sold or returned to the manufacturer, if possible, for beneficial use or recycling. Product disposal to sewer should be avoided, if possible, and only be carried out after treatment, and under relevant rules, e.g. Consent to Discharge.

Where wastes have to be disposed of, use a licenced waste contractor, and obey all national and local rules. Used paint containers should be disposed of at household waste recycling centres whether empty or part filled. Some centres will accept liquid usable paint for recycling schemes. Please check local requirements before disposal. Do not place in household waste. Paint containers (even when empty) cannot be disposed of as household waste.

Do not puncture, pierce or crush used containers.

Used packaging waste should be reused or recycled, if uncontaminated. Contaminated packaging should be cleaned on site, if appropriate facilities exist, including any relevant rules or permits, or offsite by a specialist provider. Contaminated packaging which cannot be safely cleaned must be treated in the same way as the product, and should only be disposed of as a last resort.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	Not available	Not available	Not available
14.5. Environmental hazards	Yes	MARINE POLLUTANT	Yes

Additional information
ADR/RID: Tunnel restriction code D
IMDG: EmS F-D, S-U
IATA: ERG Code: 10L

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not intended for bulk transport

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This product contains a substance identified as a Substance of Very High Concern in Europe:

Substance Name	Identification numbers	Reason for Inclusion
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (Ultraviolet Stabilisers)	25973-55-1	Article 57d Article 57e

This product contains a substance identified as a Substance of Very High Concern in Great Britain:

Substance Name	Identification numbers	Reason for Inclusion
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (Ultraviolet Stabilisers)	25973-55-1	Article 57d Article 57e

15.2. Chemical safety assessment

A chemical safety assessment is not required for this mixture

SECTION 16: Other information

Key:

ADR/RID – European Agreement concerning the International Carriage of Dangerous Goods by Road/Rail
IATA – International Air Transport Association
IMDG – International Maritime Dangerous Goods
PBT – Persistent, Bioaccumulative and Toxic Substance
vPvB – Very Persistent and Very Bioaccumulative
EPA – Environmental Protection Agency
OECD – Organisation for Economic Co-Operation and Development
LTEL – Long-term Exposure Limit
STEL – Short-term Exposure Limit
WEL – Workplace Exposure Limit
LC50 – Lethal Concentration to 50% of a test population
LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose)
EC50 – 50% of maximal Effective Concentration
SVHC – Substance of Very High Concern

Literature References and Sources for Data: European Chemicals Agency, Health and Safety Executive, Information provided from supply chain.

Full text of H-Statements referred to under Sections 2 and 3 of the SDS:

Flammable Gas Category 1, H220	*Extremely flammable gas.*
Flammable Liquid Category 2, H225	*Highly flammable liquid and vapour.*
Flammable Liquid Category 3, H226	*Flammable liquid and vapour.*
Flammable Solid Category 2, H228	*Flammable solid.*
Aerosol Category 1, H222, H229	*Extremely flammable aerosol. Pressurised container: May burst if heated.*
Substances and Mixtures which, in contact with water, emit flammable gases, Category 2, H261	*In contact with water releases flammable gases*
Gasses Under Pressure (Compressed) Category 1 (H280)	*Contains gas under pressure; may explode if heated.*
Acute Toxicity Category 4, H302	*Harmful if swallowed.*
Aspiration Toxicity 1, H304	*May be fatal if swallowed and enters airways.*
Skin Irritant Category 2, H315	*Causes skin irritation.*
Eye Damage Category 1, H318	*Causes serious eye damage.*
Eye Irritant Category 2, H319	*Causes serious eye irritation.*
Acute Toxicity Category 4, H332	*Harmful if inhaled.*
Specific Target Organ Toxicity Single Exposure Category 3, H335	*May cause respiratory irritation.*
Specific Target Organ Toxicity Single Exposure Category 3, H336	*May cause drowsiness or dizziness.*
Mutagen Category 1B, H340	*May cause genetic defects*
Carcinogen Category 1B, H350	*May cause cancer*
Carcinogen Category 2, H351	*Suspected of causing cancer*
Carcinogen Category 2, H351i	*Suspected of causing cancer if inhaled*
Reproductive Toxicity Category 2, H361	*Suspected of damaging fertility or the unborn child*
Reproductive Toxicity Category 2, H361f	*Suspected of damaging fertility*
Reproductive Toxicity Category 2, H361d	*Suspected of damaging the unborn child*

Specific Target Organ Toxicity Repeat Exposure Category 1, H372	*Causes damage to organ through prolonged or repeated exposure*
Specific Target Organ Toxicity Repeat Exposure Category 2, H373	*May cause damage to organs through prolonged or repeated exposure*
Aquatic Acute Toxicity Category 1, H400	*Very toxic to aquatic life*
Aquatic Chronic Toxicity Category 1, H410	*Very toxic to aquatic life with long lasting effects*
Aquatic Chronic Toxicity Category 2, H411	*Toxic to aquatic life with long lasting effects*
Aquatic Chronic Toxicity Category 3, H412	*Harmful to aquatic life with long lasting effects*
Aquatic Chronic Toxicity Category 3, H413	*May cause long lasting harmful effects to aquatic life*
EUH018	*In use, may form flammable/explosive vapour-air mixture*
EUH208	*May cause allergic reaction*
EUH211	*Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.*

ANNEX