



## Safety Data Sheet

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

#### 1.1. Product identifier

Trade name Tamiya TS Spray Paints (Range of Colours)  
Contains Titanium dioxide, Methyl isobutyl ketone, Hexane, Butyl acetate, Butanol  
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                     | 028 2566 3500 |
| Ballymena                  |               |
| Ballymoney                 |               |
| Cookstown                  |               |
| Carrickfergus              |               |
| Coleraine                  |               |
| Larne                      |               |
| Magherafelt                |               |
| Moyle                      |               |
| Newtownabbey council areas |               |

| Area/town                                                           | Telephone     |
|---------------------------------------------------------------------|---------------|
| Armagh and Dungannon<br>Craigavon and Banbridge<br>Newry and Mourne | 028 3839 9201 |
| Enniskillen<br>Omagh<br>Strabane<br>Derry/Londonderry<br>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 Damage Category 1, H318

Specific Target Organ Toxicity Single Exposure Category 3, H335

Specific Target Organ Toxicity Single Exposure Category 3, H336

Carcinogen Category 2, H351

Reproductive Toxicity Category 2, H361

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 damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. 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.

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

**Pictograms:**



**Signal Word: Danger**

**Hazard Statements:**

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. 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 using. Keep away from sources of ignition - No smoking. 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.

**2.3. Other hazards**

Does not contain substances known to be endocrine disrupting to humans or the environment

Product presents an inhalation risk in spray form, or if dried and flaked into respirable dust particles.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

| Substance name                 | ID numbers (CAS, EC, Index) | % w/w or % v/v | REACH reg. no | CLP Classification                                                                                  | M-factors, SCLs, ATEs | Notes |
|--------------------------------|-----------------------------|----------------|---------------|-----------------------------------------------------------------------------------------------------|-----------------------|-------|
| Butane                         | 106-97-8                    | 1.00%-10.00%   |               | Flam. Gas 1; H220<br>Press. Gas (Liq.); H280                                                        |                       | *     |
| Propylenglycol Monomethylether | 107-98-2                    | 1.00%-10.00%   |               | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                               |                       | *     |
| Methyl isobutyl ketone         | 108-10-1                    | 0.01%-15.00%   |               | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>Acute Tox. 4; H332<br>STOT SE 3; H336<br>Carc. 2; H351i |                       | *     |
| iso-Propyl                     | 108-21-4                    | 1.00%-         |               | Flam. Liq. 2; H225                                                                                  |                       | *     |



|                                        |                          |               |  |                                                                                                                                                 |                      |                        |
|----------------------------------------|--------------------------|---------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------|
| acetate                                |                          | 5.00%         |  | Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                                                           |                      |                        |
| Propylenglycol Monomethylether acetate | 108-65-6                 | 0.01%-5.00%   |  | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                                                                           |                      | *                      |
| Cyclohexanone                          | 108-94-1                 | 0.01%-10.00%  |  | Flam. Liq. 3; H226<br>Acute Tox. 4; H332                                                                                                        |                      | *                      |
| iso-Butyl acetate                      | 110-19-0                 | 0.10%-15.00%  |  | Flam. Liq. 2; H225<br>STOT SE 3; H336<br>EUH018,                                                                                                |                      | *                      |
| n-Hexane                               | 110-54-3                 | 0.1%-4.99%    |  | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Repr. 2 H361<br>STOT RE 1; H372<br>Aquatic Chronic 2; H411 | STOT RE 1; : C ≥ 5 % | *                      |
| 2-Butoxyethanol                        | 111-76-2                 | 1.00%-5.00%   |  | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Acute Tox. 4; H332                                                           |                      | *                      |
| Dimethyl ether                         | 115-10-6                 | 10.00%-65.00% |  | Flam. Gas 1; H220<br>Press. Gas (Comp.); H280                                                                                                   |                      | *                      |
| Mica                                   | 12001-25-2<br>12001-26-2 | 0.10%-5.00%   |  | not classified                                                                                                                                  |                      | *                      |
| Diacetone alcohol                      | 123-42-2                 | 1.00%-15.00%  |  | Eye Irrit. 2; H319                                                                                                                              | Eye Irrit. 2: ≥10%   | *                      |
| Butyl acetate                          | 123-86-4                 | 1.00%-15.00%  |  | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>EUH018                                                                                                 |                      | *                      |
| iso-amyl acetate                       | 123-92-2                 | 1.00%-5.00%   |  | Flam. Liq.: 3; H226                                                                                                                             |                      | *                      |
| C.I. Pigment Red 101                   | 1309-37-1                | 0.01%-5.00%   |  | not classified                                                                                                                                  |                      | *                      |
| Xylene                                 | 1330-20-7                | 0.01%-0.50%   |  | Flam. Liq. 3; H226<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Acute Tox. 4; H332                                                           |                      | *                      |
| C.I. Pigment Black 7                   | 1333-86-4                | 0.01%-1.00%   |  | 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; otherwise not classified.                |                      | Note 10<br>Note W<br>* |
| Zinc oxide                             | 1314-13-2                | 0.01%-2.49%   |  | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410                                                                                                |                      |                        |
| Ethyl acetate                          | 141-78-6                 | 1.00%-5.00%   |  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                                     |                      | *                      |
| C.I. Pigment White 21                  | 7727-43-7                | 0.01%-5.00%   |  | not classified                                                                                                                                  |                      | *                      |
| C.I. Solvent Red 49                    | 509-34-2                 | 0.10%-5.00%   |  | Acute Tox. 4; H302<br>Eye Irrit. 2; H319<br>Aquatic Chronic 2; H411                                                                             |                      |                        |
| Solvent yellow                         | 2478-20-8                | 0.10%-        |  | Aquatic Chronic 1; H410                                                                                                                         |                      |                        |

|                      |            |              |  |                                                                                                                                                                    |  |   |
|----------------------|------------|--------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|
| 44                   |            | 2.49%        |  |                                                                                                                                                                    |  |   |
| Ethyl alcohol        | 64-17-5    | 0.10%-0.50%  |  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319                                                                                                                           |  | * |
| Alkylcyclohexane     | 64742-48-9 | 0.01%-0.10%  |  | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Repr. 2; H361d<br>Aquatic Chronic 2; H411                                     |  |   |
| Mineral spirit       | 64742-88-7 | 0.01%-1.10%  |  | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>Eye Irrit. 2; H319<br>STOT RE 1; H372<br>(central nervous)<br>Aquatic Chronic 2; H411                                   |  |   |
| Aromatic hydrocarbon | 64742-95-6 | 0.01%-1.10%  |  | Flam. Liq. 2; H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Muta. 1B; H340<br>Carc. 1B; H350<br>Repr. 2; H361f<br>Aquatic Chronic 2; H411 |  |   |
| iso-Propyl alcohol   | 67-63-0    | 0.01%-5.00%  |  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                                                        |  | * |
| Acetone              | 67-64-1    | 0.10%-10.00% |  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                                                        |  | * |
| n-Butanol            | 71-36-3    | 2.00%-5.00%  |  | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br>STOT SE; H335<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H336                                            |  | * |
| Aluminium            | 7429-90-5  | 0.01%-10.00% |  | Flam. Sol. H228<br>Water-react; H261                                                                                                                               |  | * |
| Copper               | 7440-50-8  | 1.00%-5.00%  |  | Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411                                                                                                                   |  | * |
| iso-Butanol          | 78-83-1    | 1.00%-20.00% |  | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>STOT SE 3 H336                                                                 |  | * |
| sec-Butanol          | 78-92-2    | 1.00%-15.00% |  | Flam. Liq.; H226<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT SE 3; H336                                                                                       |  | * |
| Methyl ethyl ketone  | 78-93-3    | 0.01%-10.00% |  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                                                        |  | * |

\*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  $\leq 10 \mu\text{m}$ .



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.

**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  |
|----------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------|--------|
| Butane                                 | 106-97-8   | 750 ppm<br>1810 mg/m <sup>3</sup> | 600 ppm<br>1450 mg/m <sup>3</sup>                                      |        |
| Propylenglycol Monomethylether         | 107-98-2   | 150 ppm<br>560 mg/m <sup>3</sup>  | 100 ppm<br>375 mg/m <sup>3</sup>                                       |        |
| Methyl isobutyl ketone                 | 108-10-1   | 100 ppm<br>416 mg/m <sup>3</sup>  | 50 ppm<br>208 mg/m <sup>3</sup>                                        | (skin) |
| Iso-propyl acetate                     | 108-21-4   | 200 ppm<br>849 mg/m <sup>3</sup>  |                                                                        |        |
| Propylenglycol Monomethylether acetate | 108-65-6   | 100 ppm<br>548 mg/m <sup>3</sup>  | 50 ppm<br>274 mg/m <sup>3</sup>                                        | (skin) |
| Cyclohexanone                          | 108-94-1   | 20 ppm<br>82 mg/m <sup>3</sup>    | 10 ppm<br>41 mg/m <sup>3</sup>                                         | (skin) |
| Iso-butyl acetate                      | 110-19-0   | 187 ppm<br>903 mg/m <sup>3</sup>  | 150 ppm<br>724 mg/m <sup>3</sup>                                       |        |
| n-hexane                               | 110-54-3   |                                   | 20 ppm<br>72 mg/m <sup>3</sup>                                         |        |
| 2-Butoxyethanol                        | 111-76-2   | 50 ppm<br>246 mg/m <sup>3</sup>   | 25 ppm<br>123 mg/m <sup>3</sup>                                        | (skin) |
| Dimethyl ether                         | 115-10-6   | 500 ppm<br>958 mg/m <sup>3</sup>  | 400 ppm<br>766 mg/m <sup>3</sup>                                       |        |
| Mica                                   | 12001-26-2 |                                   | 10 mg/m <sup>3</sup> (Inhalable)<br>0.8 mg/m <sup>3</sup> (Respirable) |        |
| Diacetone alcohol                      | 123-42-2   | 75 ppm<br>362 mg/m <sup>3</sup>   | 50 ppm<br>241 mg/m <sup>3</sup>                                        |        |
| Butyl acetate                          | 123-86-4   | 200 ppm<br>966 mg/m <sup>3</sup>  | 150 ppm<br>724 mg/m <sup>3</sup>                                       |        |
| CI Pigment Red 101                     | 1309-37-1  | 10 mg/m <sup>3</sup>              | 5 mg/m <sup>3</sup>                                                    |        |
| Xylene                                 | 1330-20-7  | 200 ppm<br>441 mg/m <sup>3</sup>  | 50 ppm<br>220 mg/m <sup>3</sup>                                        | (skin) |
| CI Pigment Black 7                     | 1333-86-4  | 7 mg/m <sup>3</sup>               | 3.5 mg/m <sup>3</sup>                                                  |        |
| CI Pigment White 6                     | 13463-67-7 |                                   | 10 mg/m <sup>3</sup> (Inhalable)<br>4 mg/m <sup>3</sup> (Respirable)   |        |
| Ethyl Acetate                          | 141-78-6   | 400 ppm<br>1468 mg/m <sup>3</sup> | 200 ppm<br>734 mg/m <sup>3</sup>                                       |        |
| CI Pigment White 21                    | 7727-43-7  |                                   | 10 mg/m <sup>3</sup> (Inhalable)<br>4 mg/m <sup>3</sup> (Respirable)   |        |



|                     |           |                                    |                                                                                   |        |
|---------------------|-----------|------------------------------------|-----------------------------------------------------------------------------------|--------|
| Ethyl alcohol       | 64-17-5   |                                    | 1000 ppm<br>1920 mg/m <sup>3</sup>                                                |        |
| Iso-propyl alcohol  | 67-63-0   | 500 ppm<br>1250 mg/m <sup>3</sup>  | 400 ppm<br>999 mg/m <sup>3</sup>                                                  |        |
| Acetone             | 67-64-1   | 1500 ppm<br>3620 mg/m <sup>3</sup> | 500 ppm<br>1210 mg/m <sup>3</sup>                                                 |        |
| Aluminium           | 7429-90-5 |                                    | 10 mg/m <sup>3</sup> (Inhalable)<br>4 mg/m <sup>3</sup> (Respirable)              |        |
| Copper              | 7440-50-8 | 2 mg/m <sup>3</sup> (as Cu)        | 0.2 mg/m <sup>3</sup> (as Cu fume)<br>1 mg/m <sup>3</sup> (as Cu dusts and mists) |        |
| n-Butanol           | 71-36-3   | 50 ppm<br>154 mg/m <sup>3</sup>    |                                                                                   |        |
| Iso-Butanol         | 78-83-1   | 75 ppm<br>231 mg/m <sup>3</sup>    | 50 ppm<br>154 mg/m <sup>3</sup>                                                   |        |
| Sec-Butanol         | 78-92-2   | 150 ppm<br>462 mg/m <sup>3</sup>   | 100 ppm<br>308 mg/m <sup>3</sup>                                                  |        |
| Methyl ethyl ketone | 78-93-3   | 300 ppm<br>899 mg/m <sup>3</sup>   | 200 ppm<br>600 mg/m <sup>3</sup>                                                  | (skin) |

#### 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  |
| Xylene                 | 1330-20-7 | 650 mmol methyl hippuric acid/mol creatine in urine post-shift |
| Methyl ethyl ketone    | 78-93-3   | 70 µmol Methyl ethyl ketone/L 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<br>375 mg/m <sup>3</sup> | 150 ppm<br>568 mg/m <sup>3</sup> | (skin) |
| Methyl isobutyl ketone                 | 108-10-1 | 50 ppm<br>208 mg/m <sup>3</sup>  | 20 ppm<br>83 mg/m <sup>3</sup>   |        |
| Propylenglycol Monomethylether acetate | 108-65-6 | 100 ppm<br>550 mg/m <sup>3</sup> | 50 ppm<br>275 mg/m <sup>3</sup>  | (skin) |
| Cyclohexanone                          | 108-94-1 | 20 ppm<br>81.6 mg/m <sup>3</sup> | 10 ppm<br>40.8 mg/m <sup>3</sup> | (skin) |
| Iso-butyl acetate                      | 110-19-0 | 150 ppm<br>723 mg/m <sup>3</sup> | 50 ppm<br>241 mg/m <sup>3</sup>  |        |
| n-hexane                               | 110-54-3 |                                  | 20 ppm<br>72 mg/m <sup>3</sup>   |        |



|                     |           |                                   |                                    |        |
|---------------------|-----------|-----------------------------------|------------------------------------|--------|
| 2-Butoxyethanol     | 111-76-2  | 50 ppm<br>246 mg/m <sup>3</sup>   | 20 ppm<br>98 mg/m <sup>3</sup>     | (skin) |
| Dimethyl ether      | 115-10-6  |                                   | 1000 ppm<br>1920 mg/m <sup>3</sup> |        |
| Butyl acetate       | 123-86-4  | 150 ppm<br>723 mg/m <sup>3</sup>  | 50 ppm<br>241 mg/m <sup>3</sup>    |        |
| Iso-amyl acetate    | 123-92-2  | 100 ppm<br>550 mg/m <sup>3</sup>  | 50 ppm<br>270 mg/m <sup>3</sup>    |        |
| Xylene              | 1330-20-7 | 100 ppm<br>442 mg/m <sup>3</sup>  | 50 ppm<br>221 mg/m <sup>3</sup>    | (skin) |
| Ethyl Acetate       | 141-78-6  | 400 ppm<br>1468 mg/m <sup>3</sup> | 200 ppm<br>734 mg/m <sup>3</sup>   |        |
| Acetone             | 67-64-1   |                                   | 500 ppm<br>1210 mg/m <sup>3</sup>  |        |
| Methyl ethyl ketone | 78-93-3   | 300 ppm<br>900 mg/m <sup>3</sup>  | 200 ppm<br>600 mg/m <sup>3</sup>   |        |

## 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: Ester

Melting point/ freezing point: Not determined



Boiling point: -24 °C

Flammability (if solid or gas): N/A

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 kg/m<sup>3</sup>

Relative density: 1.63

Relative vapour density: Not determined

Particle characteristics: Not applicable to product

## 9.2. Other information

No additional information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No relevant information

### 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 oxidizing agents

### 10.6. Hazardous decomposition products



There are no known hazardous decomposition products in normal use

## 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/<br>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 corrosive to eyes

| Product/<br>ingredient<br>name | Target and<br>result                                                                                                                                                                                                | Species | Score                                                            | Exposure                            | Observation                                                                                                                            |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Hexane                         | OECD<br>guideline 404                                                                                                                                                                                               | Rabbit  | primary<br>dermal<br>irritation index<br>(PDII)<br>1.92 out of 3 | 24 hours                            | -                                                                                                                                      |
| Butanol                        | Two rabbits<br>were exposed<br>to the test<br>substance for<br>5 minutes, 1<br>hour and 2<br>hours under<br>occlusive<br>conditions.<br>The animals<br>were<br>observed for 8<br>days. No<br>guideline<br>mentioned | Rabbit  | -                                                                | 5 minutes, 1<br>hour and 2<br>hours | Skin- Some<br>of the<br>observation<br>parameters<br>where not<br>fully<br>reversible<br>within the 8<br>day<br>observation<br>window. |
| Butanol                        | OECD<br>Guideline 405<br>(Acute Eye<br>Irritation /<br>Corrosion)                                                                                                                                                   | Rabbit  | -                                                                | Single<br>exposure                  | Irreversible<br>effects on<br>the eye                                                                                                  |
| iso-Butanol                    | OECD<br>Guideline 405                                                                                                                                                                                               | Rabbit  | -                                                                | 24 hours                            | Corrosive,<br>not all<br>parameters<br>fully<br>reversible in<br>14 days                                                               |
| Xylene                         | EU Method<br>B.4                                                                                                                                                                                                    | Rabbit  | Primary<br>irritation<br>score: 3                                | 4 hours                             | Not<br>considered<br>to be<br>corrosive to<br>rabbit skin                                                                              |



### Sensitisation

Based on available data the classification criteria have not been met

### Mutagenicity

Based on available data the classification criteria have not been met

### Carcinogenicity

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

| Product/<br>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 <sub>2</sub>      |
| Aromatic hydrocarbon        | OECD Guideline 451    | Inhalation, Vapour | Carcinogenic effects in rats and mice       |

### Reproductive toxicity

On the basis of calculation method, the product is suspected of damaging fertility or the unborn child

| Product/<br>ingredient name | Maternal toxicity | Fertility            | Development toxicity | Species | Dose                | Exposure |
|-----------------------------|-------------------|----------------------|----------------------|---------|---------------------|----------|
| Hexane                      | -                 | Effects on fertility | -                    | Rat     | OECD guidelines 403 |          |
| Aromatic hydrocarbon        | -                 | No adverse effects   | -                    | Rats    | OECD Guideline 416  |          |

### Specific target organ toxicity (single exposure)

On the basis of calculation method, the product may cause irritation to the respiratory system and may cause narcotic effects including drowsiness and dizziness.

| Product/<br>ingredient name    | Category   | Route of exposure | Target organs                                                           |
|--------------------------------|------------|-------------------|-------------------------------------------------------------------------|
| Butyl Acetate                  | Category 3 | Inhalation        | Narcotic effect                                                         |
| Methyl isobutyl ketone         | Category 3 | Inhalation        | Kidney                                                                  |
| Hexane                         | Category 3 | Inhalation        | Narcotic effect                                                         |
| Propylenglycol Monomethylether | Category 3 | Inhalation        | Narcotic effect experienced during the first 1-2 weeks of exposure only |
| Butanol                        | Category 3 | Inhalation        | Respiratory System                                                      |
| Butanol                        | 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 the 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        |
| Solvent yellow 44        | 0.58 mg/L            | Daphnia magna                   | 48h EC50        |
|                          | 0.35 mg/L            | Pseudokirchneriella subcapitata | 72h EC50        |
|                          | 0.036 mg/L           |                                 | 72h NOEC        |
| Copper                   | 0.0384 – 0.2562 mg/L | Pimphales promelas              | 96h LC50        |

### 12.2. Persistence and degradability

| Product/ ingredient name | Test                 | Result          | Dose    | Inoculum                   |
|--------------------------|----------------------|-----------------|---------|----------------------------|
| Solvent yellow 44        | OECD Guideline 301 B | 9-14% / 28 days | 16 mg/L | activated sludge, domestic |

### 12.3. Bioaccumulative potential

This product has not been tested for its bioaccumulative potential

### 12.4. Mobility in soil

Not determined



### 12.5. Results of PBT and vPvB assessment

This product does not contain substances known to be Persistent, Bioaccumulative and Toxic, or Very Persistent and Very Bioaccumulative.

### 12.6. Endocrine disrupting properties

This product does not contain substances 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                |
|-----------------------------------------|---------------------|---------------------|---------------------|
| <b>14.1 UN number or ID number</b>      | UN1950              | UN1950              | UN1950              |
| <b>14.2. UN proper shipping name</b>    | AEROSOLS, flammable | AEROSOLS, flammable | AEROSOLS, flammable |
| <b>14.3. Transport hazard class(es)</b> | 2.1                 | 2.1                 | 2.1                 |
| <b>14.4. Packing group</b>              | Not available       | Not available       | Not available       |
| <b>14.5. Environmental hazards</b>      | 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 SDS has been compiled according to REACH regulation EC 2020/878, and CLP Regulation 1272/2008, as amended.

#### 15.2. Chemical safety assessment

A chemical safety assessment is not required for this mixture

### SECTION 16: Other information

#### Changes made to SDS: – New SDS

##### 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  
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:

|                                                                                                     |                                                                                 |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <i>Flammable Gas Category 1, H220</i>                                                               | <i>Extremely flammable gas.</i>                                                 |
| <i>Flammable Liquid Category 2, H225</i>                                                            | <i>Highly flammable liquid and vapour.</i>                                      |
| <i>Flammable Liquid Category 3, H226</i>                                                            | <i>Flammable liquid and vapour.</i>                                             |
| <i>Flammable Solid Category 2, H228</i>                                                             | <i>Flammable solid.</i>                                                         |
| <i>Aerosol Category 1, H222, H229</i>                                                               | <i>Extremely flammable aerosol. Pressurised container: May burst if heated.</i> |
| <i>Substances and Mixtures which, in contact with water, emit flammable gases, Category 2, H261</i> | <i>In contact with water releases flammable gases</i>                           |
| <i>Gasses Under Pressure (Liquified) Category</i>                                                   | <i>Contains gas under pressure; may explode if</i>                              |





|                                                                        |                                                                                                         |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1 (H280)                                                               | <i>heated.</i>                                                                                          |
| <i>Gasses Under Pressure (Compressed) Category 1 (H280)</i>            | <i>Contains gas under pressure; may explode if heated.</i>                                              |
| <i>Acute Toxicity Category 4, H302</i>                                 | <i>Harmful if swallowed.</i>                                                                            |
| <i>Aspiration Toxicity 1, H304</i>                                     | <i>May be fatal if swallowed and enters airways.</i>                                                    |
| <i>Acute Toxicity Category 4, H312</i>                                 | <i>Harmful in contact with skin.</i>                                                                    |
| <i>Skin Irritant Category 2, H315</i>                                  | <i>Causes skin irritation.</i>                                                                          |
| <i>Eye Damage Category 1, H318</i>                                     | <i>Causes serious eye damage.</i>                                                                       |
| <i>Eye Irritant Category 2, H319</i>                                   | <i>Causes serious eye irritation.</i>                                                                   |
| <i>Acute Toxicity Category 4, H332</i>                                 | <i>Harmful if inhaled.</i>                                                                              |
| <i>Specific Target Organ Toxicity Single Exposure Category 3, H335</i> | <i>May cause respiratory irritation.</i>                                                                |
| <i>Specific Target Organ Toxicity Single Exposure Category 3, H336</i> | <i>May cause drowsiness or dizziness.</i>                                                               |
| <i>Mutagen Category 1B, H340</i>                                       | <i>May cause genetic defects</i>                                                                        |
| <i>Carcinogen Category 1B, H350</i>                                    | <i>May cause cancer</i>                                                                                 |
| <i>Carcinogen Category 2, H351</i>                                     | <i>Suspected of causing cancer</i>                                                                      |
| <i>Carcinogen Category 2, H351i</i>                                    | <i>Suspected of causing cancer if inhaled</i>                                                           |
| <i>Reproductive Toxicity Category 2, H361</i>                          | <i>Suspected of damaging fertility or the unborn child</i>                                              |
| <i>Reproductive Toxicity Category 2, H361f</i>                         | <i>Suspected of damaging fertility</i>                                                                  |
| <i>Reproductive Toxicity Category 2, H361d</i>                         | <i>Suspected of damaging the unborn child</i>                                                           |
| <i>Specific Target Organ Toxicity Repeat Exposure Category 1, H372</i> | <i>Causes damage to organ through prolonged or repeated exposure</i>                                    |
| <i>Specific Target Organ Toxicity Repeat Exposure Category 2, H373</i> | <i>May cause damage to organs through prolonged or repeated exposure</i>                                |
| <i>Aquatic Acute Toxicity Category 1, H400</i>                         | <i>Very toxic to aquatic life</i>                                                                       |
| <i>Aquatic Chronic Toxicity Category 1, H410</i>                       | <i>Very toxic to aquatic life with long lasting effects</i>                                             |
| <i>Aquatic Chronic Toxicity Category 2, H411</i>                       | <i>Toxic to aquatic life with long lasting effects</i>                                                  |
| <i>EUH018</i>                                                          | <i>In use, may form flammable/explosive vapour-air mixture</i>                                          |
| <i>EUH211</i>                                                          | <i>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.</i> |

**ANNEX**