SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

Product identifier	:	RWPSBAL
Product name	:	RAPTOR WHEEL PAINT SATIN BLACK
Product type	:	Aerosol.
Other means of identification	:	RWPSB/AL
Date of issue/ Date of revision	:	19 June 2025
Version	:	1
Date of previous issue	:	No previous validation

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

Identified uses	:	Coating component.
Uses advised against	:	Not for sale to or use by consumers.

1.3 Details of the supplier of the safety data sheet

U-POL Limited
Denington Road
Wellingborough, Northamptonshire, NN8 2QH
+44 (0) 1933 230310
technicalsupport@u-pol.com

e-mail address of person responsible for this SDS : sds-competence@axalta.com

U-POL Netherlands
B.V. Hoorgoorddreef 15
Amsterdam, Netherlands 1101BA
+31 20 240 2216
technicalsupport@u-pol.com

1.4 Emergency telephone number

Supplier

Telephone number : +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Aerosol 1, H222, H229
Eye Dam. 1, H318
STOT SE 3, H336

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown toxicity : 3.4 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Contains : acetone
cyclohexanone

Hazard statements : H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.

Precautionary statements

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.

Response : P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal : Not applicable.

Supplemental label elements : EUH066 - Repeated exposure may cause skin dryness or cracking.
EUH208 - Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	[1] [2]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	<10	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
methyl acetate	REACH #: 01-2119459211-47 EC: 201-185-2 CAS: 79-20-9 Index: 607-021-00-X	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Paraffin waxes and Hydrocarbon waxes, chloro	EC: 264-150-0 CAS: 63449-39-8	≤3	Eye Irrit. 2, H319	[1]
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	<0.1	Skin Sens. 1A, H317 Repr. 2, H361 (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) **See Section 16 for the full text of the H statements declared above.**	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard
[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

SECTION 4: First aid measures

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

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

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

SECTION 4: First aid measures

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear antistatic footwear and clothing and floors should be of the conducting type.
Keep away from heat, sparks and flame. No sparking tools should be used.
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Put on appropriate personal protective equipment (see Section 8).
Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or watercourses.

SECTION 7: Handling and storage

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonnes	500 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

dimethyl ether

EH40/2005 WELs (United Kingdom (UK), 1/2020)
STEL 15 minutes: 958 mg/m³.
STEL 15 minutes: 500 ppm.
TWA 8 hours: 400 ppm.
TWA 8 hours: 766 mg/m³.

acetone

EH40/2005 WELs (United Kingdom (UK), 1/2020)
STEL 15 minutes: 3620 mg/m³.
STEL 15 minutes: 1500 ppm.
TWA 8 hours: 500 ppm.
TWA 8 hours: 1210 mg/m³.

butanone

EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin.
STEL 15 minutes: 899 mg/m³.
STEL 15 minutes: 300 ppm.
TWA 8 hours: 600 mg/m³.
TWA 8 hours: 200 ppm.

n-butyl acetate

EH40/2005 WELs (United Kingdom (UK), 1/2020)
STEL 15 minutes: 966 mg/m³.
STEL 15 minutes: 200 ppm.
TWA 8 hours: 724 mg/m³.
TWA 8 hours: 150 ppm.

cyclohexanone

EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin.
STEL 15 minutes: 20 ppm.
TWA 8 hours: 10 ppm.
STEL 15 minutes: 82 mg/m³.
TWA 8 hours: 41 mg/m³.

methyl acetate

EH40/2005 WELs (United Kingdom (UK), 1/2020)
STEL 15 minutes: 770 mg/m³.
STEL 15 minutes: 250 ppm.
TWA 8 hours: 616 mg/m³.

SECTION 8: Exposure controls/personal protection

TWA 8 hours: 200 ppm.

Biological exposure indices

Product/ingredient name	Exposure indices
butanone	**EH40/2005 BMGVs (United Kingdom (UK), 1/2020)** BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post shift.
cyclohexanone	**EH40/2005 BMGVs (United Kingdom (UK), 1/2020)** BGV: 2 mmol/mol creatinine, cyclohexanol [in urine]. Sampling time: post shift.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
dimethyl ether	**DNEL - General population - Long term - Inhalation** 471 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 1894 mg/m³ Effects: Systemic
acetone	**DNEL - Workers - Long term - Inhalation** 500 ppm Effects: Systemic **DNEL - Workers - Long term - Dermal** 186 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 1210 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Inhalation** 2420 mg/m³ Effects: Local
butanone	**DNEL - Workers - Long term - Inhalation** 200.539 ppm Effects: Systemic **DNEL - General population - Long term - Oral** 31 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 106 mg/m³ Effects: Systemic **DNEL - General population - Long term - Dermal** 412 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Inhalation**

SECTION 8: Exposure controls/personal protection

	450 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 600 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Inhalation** 900 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 1161 mg/kg bw/day Effects: Systemic
n-butyl acetate	**DNEL - Workers - Short term - Dermal** 11 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Oral** 2 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 2 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 3.4 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 6 mg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Dermal** 11 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 12 mg/m³ Effects: Systemic **DNEL - General population - Long term - Inhalation** 35.7 mg/m³ Effects: Local **DNEL - General population - Short term - Inhalation** 300 mg/m³ Effects: Local **DNEL - General population - Short term - Inhalation** 300 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 300 mg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation** 600 mg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation**

SECTION 8: Exposure controls/personal protection

	600 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 300 mg/m³ Effects: Systemic
cyclohexanone	**DNEL - Workers - Long term - Inhalation** 9.8 ppm Effects: Systemic **DNEL - General population - Short term - Dermal** 1 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal** 1 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 1.5 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Oral** 1.5 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 2.55 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Dermal** 4 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 4 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Inhalation** 5 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 10 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 10 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Inhalation** 20 mg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation** 20 mg/m³ Effects: Systemic
methyl acetate	**DNEL - General population - Long term - Oral** 21.5 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Dermal**

SECTION 8: Exposure controls/personal protection

	21.5 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 43 mg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Inhalation** 64 mg/m³ Effects: Systemic **DNEL - General population - Long term - Inhalation** 133 mg/m³ Effects: Local **DNEL - General population - Short term - Oral** 203 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 203 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 300 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 620 mg/m³ Effects: Local **DNEL - General population - Short term - Inhalation** 3777 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Inhalation** 3777 mg/m³ Effects: Systemic
Paraffin waxes and Hydrocarbon waxes, chloro	**DNEL - General population - Long term - Oral** 4.5 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 63.5 mg/m³ Effects: Systemic **DNEL - General population - Long term - Dermal** 225 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 450 mg/kg bw/day Effects: Systemic
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	**DNEL - Workers - Long term - Inhalation** 3.53 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Dermal** 2 mg/kg Effects: Systemic **DNEL - General population - Long term - Oral**

SECTION 8: Exposure controls/personal protection

0.18 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
0.31 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal
0.9 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Inhalation
1.27 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Dermal
1.8 mg/kg bw/day
Effects: Systemic

PNECs

Product/ingredient name	Result
acetone	**Fresh water** 10.6 mg/l **Marine water sediment** 1.06 mg/l **Sediment** 30.4 mg/kg **Marine water sediment** 3.04 mg/kg **Soil** 29.5 mg/kg **Sewage Treatment Plant** 100 mg/l
butanone	**Fresh water** 55.8 mg/l **Sewage Treatment Plant** 709 mg/l **Fresh water sediment** 284.7 mg/kg **Marine water sediment** 284.7 mg/kg **Marine water** 55.8 mg/l **Sewage Treatment Plant** 22.5 mg/kg
n-butyl acetate	**Soil** 0.09 mg/kg **Fresh water** 0.18 mg/l

SECTION 8: Exposure controls/personal protection

	Sewage Treatment Plant 35.6 mg/l **Marine water** 0.018 mg/l **Fresh water sediment** 0.981 mg/kg **Marine water sediment** 0.098 mg/kg
cyclohexanone	**Fresh water** 0.0329 mg/l **Marine water** 0.0329 mg/l
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	**Fresh water** 0.0022 mg/l **Marine water** 0.00022 mg/l **Secondary Poisoning** 0.009 mg/l **Fresh water sediment** 1.05 mg/kg **Marine water sediment** 0.11 mg/kg **Soil** 0.21 mg/kg **Sewage Treatment Plant** 1 mg/l

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

SECTION 8: Exposure controls/personal protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The breakthrough time must be greater than the end use time of the product.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Always ensure that gloves are free from defects and that they are stored and used correctly.
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves : Duration / breakthrough time: <1 hour,
Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374)
Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Black.

Odour : Not available.

Odour threshold : Not available.

Melting point/freezing point : Technically not possible to measure

Initial boiling point and boiling range : Not applicable.

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits : Lower: 1%
Upper: 26.2%

Not available.

Flash point : Closed cup: -41°C (-41.8°F)

Auto-ignition temperature : 350°C (662°F)

SECTION 9: Physical and chemical properties

Decomposition temperature	:	Not applicable.
pH	:	Not applicable.
Viscosity	:	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.
Solubility in water	:	Not available.
Miscible with water	:	Yes.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	212.9 kPa (1596.8 mm Hg)
Relative density	:	Not available.
Density	:	0.782 g/cm³
Vapour density	:	Not available.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
Weight volatiles	:	88.5 % (w/w)
VOC content	:	88.5 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Heat of combustion : 26.68 kJ/g

Aerosol product

Type of aerosol : Spray

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : Yes.

Further information Not available.

room temperature (=20°C)

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

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

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
dimethyl ether	**Rat - Oral - LD50** >99999 mg/kg **Rat - Dermal - LD50** >99999 mg/kg **Rat - Inhalation - LC50 Vapour** 309 g/m³ [4 hours] **Rat - Inhalation - LC50 Gas.** 164000 ppm [4 hours] Toxic effects: Behavioral - Ataxia Behavioral - Coma
acetone	**Rat - Oral - LD50** 5800 mg/kg Toxic effects: Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor **Rabbit - Dermal - LD50** 2001 mg/kg **Rat - Inhalation - LC50 Vapour** 21 mg/l [4 hours]
butanone	**Rabbit - Dermal - LD50** 6480 mg/kg **Rat - Oral - LD50** 2737 mg/kg
n-butyl acetate	**Rat - Oral - LD50** 10768 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver - Other changes **Rabbit - Dermal - LD50** >17600 mg/kg **Rat - Inhalation - LC50 Vapour** 21.1 mg/l [4 hours]
cyclohexanone	**Rat - Oral - LD50** 1800 mg/kg **Rat - Inhalation - LC50 Gas.** 8000 ppm [4 hours]
methyl acetate	**Rat - Oral - LD50** >5 g/kg **Rabbit - Dermal - LD50** >5 g/kg
Paraffin waxes and Hydrocarbon waxes, chloro	**Rat - Oral - LD50** 26100 mg/kg
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl	**Rat - Male, Female - Oral - LD50** 3230 mg/kg

SECTION 11: Toxicological information

1,2,2,6,6-pentamethyl-4-piperidyl sebacate	OECD [Acute Oral toxicity - Acute Toxic Class Method] **Rat - Male, Female - Dermal - LD50** >3170 mg/kg OECD [Acute Dermal Toxicity]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	31161.5	19043.1	138495.4	N/A	N/A
dimethyl ether	N/A	N/A	164000	309	N/A
acetone	5800	2001	N/A	21	N/A
butanone	2737	6480	N/A	N/A	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
cyclohexanone	1800	1100	8000	N/A	N/A
Paraffin waxes and Hydrocarbon waxes, chloro	26100	N/A	N/A	N/A	N/A
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
acetone	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg **Rabbit - Skin - Mild irritant** Amount/concentration applied: 395 mg
butanone	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 14 mg **Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 402 mg **Rabbit - Skin - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
cyclohexanone	**Human - Skin - Mild irritant** Duration of treatment/exposure: 48 hours Amount/concentration applied: 50 % **Rabbit - Skin - Mild irritant** Amount/concentration applied: 500 mg **Rabbit - Skin - Irritant** OECD [Acute Dermal Irritation/Corrosion]
methyl acetate	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg **Rabbit - Skin - Moderate irritant**

SECTION 11: Toxicological information

	Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg
Paraffin waxes and Hydrocarbon waxes, chloro	**Rat - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
acetone	**Human - Eyes - Mild irritant** Amount/concentration applied: 186300 ppm **Rabbit - Eyes - Mild irritant** Amount/concentration applied: 10 uL **Rabbit - Eyes - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg **Rabbit - Eyes - Severe irritant** Amount/concentration applied: 20 mg
cyclohexanone	**Rabbit - Eyes - Severe irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 250 ug **Rabbit - Eyes - Severe irritant** Amount/concentration applied: 20 mg
methyl acetate	**Rabbit - Eyes - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg
Paraffin waxes and Hydrocarbon waxes, chloro	**Rabbit - Eyes - Mild irritant** Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
acetone	STOT SE 3, H336 (Narcotic effects)
butanone	STOT SE 3, H336 (Narcotic effects)
n-butyl acetate	STOT SE 3, H336 (Narcotic effects)
cyclohexanone	STOT SE 3, H335 (Respiratory tract irritation)
methyl acetate	STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

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

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

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

SECTION 11: Toxicological information

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

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

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
acetone	**Acute - LC50 - Fresh water** Daphnia - Water flea - *Daphnia magna* 10 mg/l [48 hours] Effect: Mortality **Chronic - NOEC - Marine water** Algae - Green algae - *Ulva pertusa* 4.95 mg/l [96 hours] Effect: Reproduction **Acute - EC50 - Marine water** Algae - Green algae - *Ulva pertusa* 20.565 mg/l [96 hours] Effect: Reproduction **Chronic - NOEC - Fresh water** Crustaceans - Daphnia - *Daphniidae* 0.016 ml/l [21 days] Effect: Population **Acute - LC50 - Fresh water** Fish - Guppy - *Poecilia reticulata* Age: 4 to 12 months; Size: 2 to 10 cm; Weight: 0.5 to 14 g

SECTION 12: Ecological information

	5600 ppm [96 hours] Effect: Mortality
butanone	**Acute - EC50 - Fresh water** Daphnia - Water flea - *Daphnia magna* - Larvae Age: <24 hours 5091 mg/l [48 hours] Effect: Intoxication **Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* Age: 31 days; Size: 22 mm; Weight: 0.167 g 3220 mg/l [96 hours] Effect: Mortality **Acute - EC50 - Marine water** Algae - Diatom - *Skeletonema costatum* >500 mg/l [96 hours] Effect: Population
n-butyl acetate	**Acute - LC50 - Marine water** Fish - Inland silverside - *Menidia beryllina* 185 ppm [96 hours] Effect: Mortality
cyclohexanone	**Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* Age: 30 days; Size: 20.2 mm; Weight: 0.127 g 527 mg/l [96 hours] Effect: Mortality **Chronic - EC10** Algae - Green algae - *Chlamydomonas reinhardtii* - Exponential growth phase Age: 7 days 3.56 mg/l [72 hours] Effect: Population **Acute - EC50** Algae - Green algae - *Chlamydomonas reinhardtii* - Exponential growth phase Age: 7 days 32.9 mg/l [72 hours] Effect: Population
methyl acetate	**Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* Age: 28 to 32 days; Size: 17.5 mm; Weight: 0.087 g 320 mg/l [96 hours] Effect: Mortality
Paraffin waxes and Hydrocarbon waxes, chloro	**Acute - LC50 - Marine water** Fish - Bleak - *Alburnus alburnus* >5000 mg/l [96 hours] Effect: Mortality
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	**Acute - LC50** OECD 203, semistatic Fish - *Brachydanio rerio* 0.9 mg/l [96 hours] **Chronic - NOEC - Fresh water** OECD [Daphnia Magna Reproduction Test]

SECTION 12: Ecological information

Daphnia
1 mg/l [21 days]

Acute - EC50 - Fresh water
OECD [Alga, Growth Inhibition Test]
Algae
1.68 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
dimethyl ether	0.07	-	Low
acetone	-0.23	-	Low
butanone	0.3	-	Low
n-butyl acetate	2.3	-	Low
cyclohexanone	0.86	-	Low
methyl acetate	0.18	-	Low
Paraffin waxes and Hydrocarbon waxes, chloro	7.46 to 11.48	-	High

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
dimethyl ether	No	N/A	N/A	No	N/A	N/A	N/A
acetone	No	N/A	N/A	No	N/A	N/A	N/A
butanone	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
cyclohexanone	No	N/A	N/A	No	N/A	N/A	N/A
methyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
Paraffin waxes and Hydrocarbon waxes, chloro	No	N/A	N/A	No	N/A	N/A	N/A
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	N/A	N/A	N/A	Yes	N/A	N/A	N/A

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	Waste catalogue	
	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2 	2 	2.1 	2.1 
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID : **Tunnel code** (D)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P3a

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods

SECTION 16: Other information

by Rail
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Aerosol 1, H222, H229	On basis of test data
Eye Dam. 1, H318	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Notice to reader

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SECTION 16: Other information

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