

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

**Product name** : Eclipse ECL-T ARC RM  
**MSDS code** : A48430  
**Product code** : 77791/044130

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

| Identified uses            |        |
|----------------------------|--------|
| Aerospace coating          |        |
| Uses advised against       | Reason |
| For professional use only. |        |

#### 1.3 Details of the supplier of the safety data sheet

AkzoNobel Aerospace Coatings  
Rijksstraatweg 31  
2171 AJ Sassenheim  
P.O. Box 3  
2170 BA Sassenheim  
The Netherlands  
**e-mail address of person responsible for this SDS** : PSRA\_SSH@akzonobel.com

#### 1.4 Emergency telephone number

##### National advisory body/Poison Center

**Telephone number** : Not available.

##### Supplier

**Telephone number** : + 31 (0)71 308 6944  
**Hours of operation** : 24 hours

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

Skin Sens. 1, H317

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : 16.8 percent of the mixture consists of component(s) of unknown toxicity

**Ingredients of unknown ecotoxicity** : Contains 16.8 % of components with unknown hazards to the aquatic environment

## 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**

: Warning

**Hazard statements**

: Flammable liquid and vapor.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention**

: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response**

: Not applicable.

**Storage**

: Not applicable.

**Disposal**

: Not applicable.

**Hazardous ingredients**

: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate  
dipentene  
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
Polyethyleneglycol mono-(3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionate)  
Polyethylene glycol di[3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)-1-oxopropyl] ether

**Supplemental label elements**

: Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

: Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings**

: Not applicable.

**Tactile warning of danger**

: 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

| Product/ingredient name                           | Identifiers   | %         | <u>Classification</u><br>Regulation (EC) No.<br>1272/2008 [CLP]  | Specific Conc.<br>Limits, M-factors<br>and ATEs | Type    |
|---|---|-----------|--|---|---------|
| heptan-2-one                                      | REACH #:<br>01-2119902391-49<br>EC: 203-767-1<br>CAS: 110-43-0                        | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332   | -   | [1] [2] |
| n-butyl acetate                                   | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≤3        | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | -   | [1]     |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate   | EC: 255-437-1<br>CAS: 41556-26-7  | ≤3        | Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)   | -   | [1]     |
| dipentene   | EC: 205-341-0<br>CAS: 138-86-3<br>Index: 601-029-00-7                                 | <1        | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                        | -   | [1]     |
| methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | EC: 280-060-4<br>CAS: 82919-37-7  | <1        | Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)   | -   | [1]     |
| butyl glycollate                                  | EC: 230-991-7<br>CAS: 7397-62-8   | <1        | Eye Dam. 1, H318<br>Repr. 2, H361fd (Fertility and Unborn child) (oral)<br><b>See Section 16 for the full text of the H statements declared above.</b> | -   | [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 health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                                   |   |
|-----------------------------------|---|
| <b>General</b>                    | : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.   |
| <b>Eye contact</b>                | : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.   |
| <b>Inhalation</b>                 | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.  |
| <b>Skin contact</b>               | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.  |
| <b>Ingestion</b>                  | : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.   |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training. 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, dipentene, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, Polyethyleneglycol mono-(3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionate), Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether. May produce an allergic reaction.

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

- |                            |   |
|----------------------------|---|
| <b>Notes to physician</b>  | : 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. |
| <b>Specific treatments</b> | : No specific treatment.  |

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**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 thermal decomposition 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 vapor or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialized 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 materials 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 vapors in air and avoid vapor 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

## SECTION 7: Handling and storage

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.

### Information on fire and explosion protection

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

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidizing 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 unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| heptan-2-one            | <b>EU OEL (Europe, 12/2009). Absorbed through skin.</b><br>STEL: 475 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 238 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours. |



## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard 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

No DNELs/DMELs available.

### PNECs

No PNECs available.

## 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 vapors 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. Contaminated work clothing should not be allowed out of the workplace. 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

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** : For prolonged or repeated handling, use the following type of gloves:

May be used: nitrile rubber, neoprene, butyl rubber

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

## SECTION 8: Exposure controls/personal protection

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 fibers or of high-temperature-resistant synthetic fibers.
- 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.

Treatments such as sanding, burning off etc of paint films may generate hazardous dust and/or fumes. Wet sanding/flatting should be used wherever possible. Work in well ventilated areas. Respiratory protection in case of dust or spray mist formation. (particle filter EN143 type P3) Respiratory protection in case of vapour formation. (half mask with combination filter A2-P3 till concentrations of 0,5 Vol%.)

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Color** : Product Specific Information
- Odor** : TYPICAL.
- Odor threshold** : Not available.
- pH** : Acidic. [DIN EN 1262]
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : 126°C (258.8°F)
- Flash point** : Closed cup: 25°C [Pensky-Martens]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)
- Vapor pressure** :
- Vapor density** : Highest known value: 4 (Air = 1) (n-butyl acetate). Weighted average: 3.91 (Air = 1)
- Relative density** : 1.41 [DIN EN ISO 2811-1]
- Solubility(ies)** : Not available.
- Partition coefficient: n-octanol/ water** : Not available.
- Auto-ignition temperature** :
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (room temperature): 1.77 cm<sup>2</sup>/s [DIN EN ISO 3219]



**SECTION 9: Physical and chemical properties**

|  |                   |
|--|-------------------|
| <b>Explosive properties</b>            | : Not available.  |
| <b>Oxidizing properties</b>            | : Not available.  |
| <b><u>Particle characteristics</u></b> |                   |
| <b>Median particle size</b>            | : Not applicable. |

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                     |
| <b>10.2 Chemical stability</b>                 | : Stable under recommended storage and handling conditions (see Section 7).  |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.  |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
| <b>10.6 Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                           |

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, dipentene, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, Polyethyleneglycol mono-(3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionate), Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether. May produce an allergic reaction.

**Acute toxicity**

## SECTION 11: Toxicological information

| Product/ingredient name | Result                | Species | Dose         | Exposure |
|-------------------------|-----------------------|---------|--------------|----------|
| heptan-2-one            | LD50 Oral             | Rat     | 1600 mg/kg   | -        |
| n-butyl acetate         | LC50 Inhalation Vapor | Rat     | 390 ppm      | 4 hours  |
|                         | LD50 Dermal           | Rabbit  | >17600 mg/kg | -        |
|                         | LD50 Oral             | Rat     | 10768 mg/kg  | -        |
| dipentene               | LD50 Oral             | Rat     | 5300 mg/kg   | -        |

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Product as-supplied

| Route               | ATE value    |
|---------------------|--------------|
| Oral                | 5922.6 mg/kg |
| Inhalation (vapors) | 40.72 mg/l   |

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| heptan-2-one            | Skin - Mild irritant     | Rabbit  | -     | 24 hours 14 milligrams  | -           |
| n-butyl acetate         | Eyes - Moderate irritant | Rabbit  | -     | 100 milligrams          | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| dipentene               | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |

**Conclusion/Summary** : Not available.

### Sensitization

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| n-butyl acetate         | Category 3 | Not applicable.   | Narcotic effects |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**SECTION 11: Toxicological information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| <b>Skin contact</b> | : May cause an allergic skin reaction.   |
| <b>Ingestion</b>    | : No known significant effects or critical hazards.  |

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

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | : No specific data.  |
| <b>Inhalation</b>   | : No specific data.  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness |
| <b>Ingestion</b>    | : No specific data.  |

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

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

**Long term exposure**

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

**Potential chronic health effects**

Not available.

|                              |   |
|------------------------------|---|
| <b>Conclusion/Summary</b>    | : Not available.  |
| <b>General</b>               | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards.   |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.   |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards.   |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.   |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards.   |

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

## SECTION 12: Ecological information

| Product/ingredient name | Result  | Species  | Exposure |
|-------------------------|---|--|----------|
| heptan-2-one            | Acute LC50 131000 to 137000 µg/l<br>Fresh water | Fish - Pimephales promelas   | 96 hours |
| n-butyl acetate         | Acute LC50 62000 µg/l                           | Fish - Danio rerio   | 96 hours |
| dipentene               | Acute EC50 28.2 mg/l Fresh water                | Daphnia - Daphnia magna  | 48 hours |
|                         | Acute EC50 20.2 mg/l Fresh water                | Fish - Pimephales promelas -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 96 hours |
|                         | Acute IC50 13.798 mg/l Fresh water              | Algae - Pseudokirchneriella<br>subcapitata                                   | 96 hours |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| heptan-2-one            | 2.26               | -   | low       |
| n-butyl acetate         | 2.3                | -   | low       |
| dipentene               | 4.57               | -   | high      |
| butyl glycollate        | 0.38               | -   | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**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.

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 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

## SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized 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** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
- Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation   |
|------------|---|
| 08 01 11*  | waste paint and varnish containing organic solvents or other hazardous substances |






### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

| Type of packaging | European waste catalogue (EWC)  |
|-------------------|---|
| CEPE Guidelines   | 15 01 10*<br>packaging containing residues of or contaminated by hazardous substances |

- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                            | ADR/RID  | IMDG   | IATA   |
|----------------------------|--|--|--|
| UN number                  | UN1263   | UN1263   | UN1263   |
| UN proper shipping name    | PAINT  | PAINT  | PAINT  |
| Transport hazard class(es) | 3<br>  | 3<br>  | 3<br> |
| Packing group              | III  | III  | III  |

## SECTION 14: Transport information

|                               |   |   |  |
|-------------------------------|---|---|--|
| <b>Environmental hazards</b>  | Yes.  | bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate   | No.  |
| <b>Additional information</b> | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br><b><u>Special provisions</u></b><br>640 (E)<br><br><b><u>Tunnel code</u></b><br>(D/E) | F-E, _S-E_<br>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. | 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 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**

**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.

**Other EU regulations**

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : Not applicable.

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects                | Fertility effects                 |
|-------------------------|----------------------|-------------------|--------------------------------------|-----------------------------------|
| butyl glycolate         | -                    | -                 | Repr. 2, H361d (Unborn child) (oral) | Repr. 2, H361f (Fertility) (oral) |

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Seveso Directive**



**SECTION 15: Regulatory information**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

**Industrial use**

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**International regulations****Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol (Annexes A, B, C, E)**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**15.2 Chemical Safety Assessment**

: No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information****CEPE code**

: 1

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification  | Justification   |
|---|---|
| Flam. Liq. 3, H226<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | On basis of test data<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

**SECTION 16: Other information**

|  |  |
|--|--|
| H226                                       | Flammable liquid and vapor.  |
| H302                                       | Harmful if swallowed.  |
| H315                                       | Causes skin irritation.  |
| H317                                       | May cause an allergic skin reaction.   |
| H318                                       | Causes serious eye damage.   |
| H332                                       | Harmful if inhaled.  |
| H336                                       | May cause drowsiness or dizziness.   |
| H361fd (Fertility and Unborn child) (oral) | Suspected of damaging fertility if swallowed. Suspected of damaging the unborn child if swallowed. |
| H400                                       | Very toxic to aquatic life.  |
| H410                                       | Very toxic to aquatic life with long lasting effects.  |
| H411                                       | Toxic to aquatic life with long lasting effects.   |

**Full text of classifications [CLP/GHS]**

|   |  |
|---|--|
| Acute Tox. 4, H302                                  | ACUTE TOXICITY (oral) - Category 4   |
| Acute Tox. 4, H332                                  | ACUTE TOXICITY (inhalation) - Category 4   |
| Aquatic Acute 1, H400                               | AQUATIC HAZARD (ACUTE) - Category 1  |
| Aquatic Chronic 1, H410                             | AQUATIC HAZARD (LONG-TERM) - Category 1  |
| Aquatic Chronic 2, H411                             | AQUATIC HAZARD (LONG-TERM) - Category 2  |
| EUH066  | Repeated exposure may cause skin dryness or cracking.                            |
| Eye Dam. 1, H318                                    | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1                                  |
| Flam. Liq. 3, H226                                  | FLAMMABLE LIQUIDS - Category 3   |
| Repr. 2, H361fd (Fertility and Unborn child) (oral) | TOXIC TO REPRODUCTION (Fertility and Unborn child) (oral) - Category 2           |
| Skin Irrit. 2, H315                                 | SKIN CORROSION/IRRITATION - Category 2   |
| Skin Sens. 1, H317                                  | SKIN SENSITIZATION - Category 1  |
| STOT SE 3, H336                                     | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |

**Notice to reader****FOR PROFESSIONAL USE ONLY**

**IMPORTANT NOTE** The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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**Head Office**

AkzoNobel Aerospace Coatings, Rijksweg 31 2171 AJ Sassenheim. <http://www.akzonobel.com/aerospace>