**AkzoNobel Specialty Coatings**
Akzo Nobel Car Refinishes S.L.

**This product is for the professional painting of vehicles only after reference to the manufacturer's data sheet.**

# SAFETY DATA SHEET

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

### 1.1 Product identifier

**Product name** : 6E47-BC BSAP Concord Blue Metallic HS Basecoat

**MSDS code** : 044890

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

| Identified uses |
|---|
| Car and vehicle |

| Uses advised against | Reason |
|---|---|
| For professional use only. | |

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

Akzo Nobel Car Refinishes S.L.
Feixa Llarga 14-20 (Zona Franca)
08040 Barcelona Spain
Tel: +49 711 8951 677

**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. 2, H225
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 2, H411

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

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

## SECTION 2: Hazards identification

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response** : Not applicable.

**Storage** : Store in a well-ventilated place.

**Disposal** : Not applicable.

**Hazardous ingredients** : n-butyl acetate

**Supplemental label elements** : Contains isocyanates. Contains Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-[3-[3-(, Poly(oxy-1, 2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl] -1-oxopropyl]-?-hydroxy, p-dodecylbenzenesulphonic acid and Hexamethylene diisocyanate, oligomers. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.

**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

## SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification<br>Regulation (EC) No. 1272/2008 [CLP] | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| n-butyl acetate | REACH #: 01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 | - | [1] |
| ethyl 3-ethoxypropionate | REACH #: 01-2119463267-34<br>EC: 212-112-9<br>CAS: 763-69-9 | ≤10 | Flam. Liq. 3, H226<br>EUH066 | - | [1] |
| heptan-2-one | REACH #: 01-2119902391-49<br>EC: 203-767-1<br>CAS: 110-43-0 | ≤10 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 4, H332 | - | [1] [2] |
| heptane | EC: 205-563-8<br>CAS: 142-82-5<br>Index: 601-008-00-2 | ≤5 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) | - | [1] [2] |
| Distillates (petroleum), hydrotreated light | EC: 265-149-8<br>CAS: 64742-47-8<br>Index: 649-422-00-2 | ≤3 | Asp. Tox. 1, H304 | - | [1] |
| Naphtha (petroleum), hydrotreated heavy | EC: 265-150-3<br>CAS: 64742-48-9<br>Index: 649-327-00-6 | ≤3 | Asp. Tox. 1, H304<br>EUH066 | - | [1] |
| pentan-2-one | EC: 203-528-1<br>CAS: 107-87-9 | ≤3 | Flam. Liq. 2, H225<br>Acute Tox. 4, H302<br>Eye Irrit. 2, H319 | - | [1] |
| Stoddard solvent | EC: 232-489-3<br>CAS: 8052-41-3<br>Index: 649-345-00-4 | ≤3 | STOT RE 2, H373 (inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066 | - | [1] |
| Isopropyl alcohol | EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0 | ≤3 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 | - | [1] |
| butan-1-ol | REACH #: 01-2119484630-38<br>EC: 200-751-6<br>CAS: 71-36-3<br>Index: 603-004-00-6 | ≤2 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336 | - | [1] |
| p-dodecylbenzenesulphonic acid | EC: 204-489-3<br>CAS: 121-65-3 | <1 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317 | - | [1] |
| Naphtha (petroleum), hydrotreated light | EC: 265-151-9<br>CAS: 64742-49-0<br>Index: 649-328-00-1 | ≤0.3 | Skin Irrit. 2, H315<br>Asp. Tox. 1, H304<br>Aquatic Chronic 1, H410 (M=1) | - | [1] |
| Hexamethylene diisocyanate, oligomers | EC: 500-060-2<br>CAS: 28182-81-2 | ≤0.3 | Acute Tox. 4, H332<br>Skin Sens. 1, H317 | - | [1] |

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| Methyl isobutyl ketone | REACH #: 01-2119473980-30<br>EC: 203-550-1<br>CAS: 108-10-1<br>Index: 606-004-00-4 | ≤0.3 | STOT SE 3, H335<br>Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>EUH066 | - | [1] [2] |
| Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-hydroxy | CAS: 104810-48-2 | ≤0.3 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | - | [1] |
| Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-[3-[3-( | CAS: 104810-47-1 | ≤0.3 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411<br><br>**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 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

**General** : 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.

**Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : 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.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

**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.

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

## SECTION 4: First aid measures

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.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
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. 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.
Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains p-dodecylbenzenesulphonic acid, Hexamethylene diisocyanate, oligomers, Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-hydroxy, Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-[3-[3-(. May produce an allergic reaction.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, $CO_2$, powders, water spray or mist.

**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, hydrogen cyanide, monomeric isocyanates.

### 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).

### 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).

**Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.**

**Examination of lung function should be carried out on a regular basis on persons spraying this mixture.**

### 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 conducting type.
Care should be taken when re-opening partly-used containers. Precautions should be taken to minimize exposure to atmospheric humidity or water. $CO_2$ will be formed, which, in closed containers, could result in pressurization. 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.

## SECTION 7: Handling and storage

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 container tightly closed.
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 | **EU OEL (Europe, 12/2009). Absorbed through skin.**<br>STEL: 475 mg/m³ 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 238 mg/m³ 8 hours.<br>TWA: 50 ppm 8 hours. |
| heptane | **EU OEL (Europe, 12/2009).**<br>TWA: 2085 mg/m³ 8 hours.<br>TWA: 500 ppm 8 hours. |
| Methyl isobutyl ketone | **EU OEL (Europe, 2/2017).**<br>STEL: 208 mg/m³ 15 minutes.<br>STEL: 50 ppm 15 minutes.<br>TWA: 83 mg/m³ 8 hours.<br>TWA: 20 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

**Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.**

**Examination of lung function should be carried out on a regular basis on persons spraying this mixture.**

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)

**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**

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

## SECTION 8: Exposure controls/personal protection

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

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** : By spraying: air-fed respirator.
By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask.

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.

Workers must use a compressed-air breathing apparatus to EN 14594, with an assigned protection factor of at least 20.
Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task and environment, including consideration of the facial features of the wearer.

**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** | : Characteristic. | |
| **Odor threshold** | : Not available. | |
| **pH** | : Acidic. | [DIN EN 1262] |
| **Melting point/freezing point** | : Not available. | |
| **Initial boiling point and boiling range** | : 83°C (181.4°F) | |
| **Flash point** | : Closed cup: 12°C | [Pensky-Martens] |
| **Evaporation rate** | : Not available. | |
| **Flammability (solid, gas)** | : Not available. | |
| **Upper/lower flammability or explosive limits** | : Greatest known range: Lower: 2% Upper: 12% (Isopropyl alcohol) | |
| **Vapor pressure** | : | |
| **Vapor density** | : Highest known value: 5 (Air = 1) (ethyl 3-ethoxypropionate). Weighted average: 4.04 (Air = 1) | |
| **Relative density** | : 0.95 | [DIN EN ISO 2811-1] |
| **Solubility(ies)** | : Not available. | |
| **Partition coefficient: n-octanol/water** | : Not available. | |

## SECTION 9: Physical and chemical properties

| | | | |
|---|---|---|---|
| **Auto-ignition temperature** | : | | |
| **Decomposition temperature** | : | Not available. | |
| **Viscosity** | : | Kinematic (room temperature): 0.53 $cm^2/s$ | [DIN EN ISO 3219] |
| **Explosive properties** | : | Not available. | |
| **Oxidizing properties** | : | Not available. | |
| **Particle characteristics** | | | |
| **Median particle size** | : | Not applicable. | |

### 9.2 Other information

No additional information.

## 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** : The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure buildup could result in distortion, expansion and, in extreme cases, bursting of the container.

**10.4 Conditions to avoid** : In a fire, hazardous decomposition products may be produced.

**10.5 Incompatible materials** : Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

**10.6 Hazardous decomposition products** : 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.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
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. 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.
Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.
Repeated or prolonged contact with irritants may cause dermatitis.

Contains p-dodecylbenzenesulphonic acid, Hexamethylene diisocyanate, oligomers, Poly(oxy-1,2-ethanediyl), a-[3-[3-

## SECTION 11: Toxicological information

(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-hydroxy, Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-?-[3-[3-(. May produce an allergic reaction.

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| n-butyl acetate | LC50 Inhalation Vapor | Rat | 390 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 10768 mg/kg | - |
| ethyl 3-ethoxypropionate | LD50 Oral | Rat | 3200 mg/kg | - |
| heptan-2-one | LD50 Oral | Rat | 1600 mg/kg | - |
| Naphtha (petroleum), hydrotreated heavy | LD50 Oral | Rat | >6 g/kg | - |
| pentan-2-one | LD50 Dermal | Rabbit | 6500 mg/kg | - |
| | LD50 Oral | Rat | 1600 mg/kg | - |
| Isopropyl alcohol | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| butan-1-ol | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| Methyl isobutyl ketone | LD50 Oral | Rat | 2080 mg/kg | - |

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Product as-supplied

| Route | ATE value |
|---|---|
| Oral | 15919.2 mg/kg |
| Inhalation (vapors) | 185.1 mg/l |

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| n-butyl acetate | Eyes - Moderate irritant | Rabbit | - | 100 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| ethyl 3-ethoxypropionate | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| heptan-2-one | Skin - Mild irritant | Rabbit | - | 24 hours 14 milligrams | - |
| pentan-2-one | Skin - Mild irritant | Rabbit | - | 405 milligrams | - |
| Stoddard solvent | Eyes - Mild irritant | Human | - | 100 parts per million | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Isopropyl alcohol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 100 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| butan-1-ol | Eyes - Severe irritant | Rabbit | - | 24 hours 2 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 0.005 Mililiters | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| Hexamethylene diisocyanate, oligomers | Eyes - Moderate irritant | Rabbit | - | 100 milligrams | - |

## SECTION 11: Toxicological information

| | | | | | |
|---|---|---|---|---|---|
| | Skin - Moderate irritant | Rabbit | - | 500 milligrams | - |
| Methyl isobutyl ketone | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 microliters | - |
| | Eyes - Severe irritant | Rabbit | - | 40 milligrams | - |
| | Skin - Mild 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 |
| heptane | Category 3 | Not applicable. | Narcotic effects |
| Isopropyl alcohol | Category 3 | Not applicable. | Narcotic effects |
| butan-1-ol | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| Hexamethylene diisocyanate, oligomers | Category 3 | Not applicable. | Respiratory tract irritation |
| Methyl isobutyl ketone | Category 3 | Not applicable. | Respiratory tract irritation |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Stoddard solvent | Category 2 | Inhalation | Not determined |

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| heptane | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated heavy | ASPIRATION HAZARD - Category 1 |
| Stoddard solvent | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |

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

**Potential acute health effects**

**Eye contact** :

**Inhalation** :

**Skin contact** :

## SECTION 11: Toxicological information

**Ingestion** :

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

**Eye contact** :

**Inhalation** :

**Skin contact** :

**Ingestion** :

**Delayed and immediate effects and also 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** : Not available.

**General** :

**Carcinogenicity** :

**Mutagenicity** :

**Teratogenicity** :

**Developmental effects** :

**Fertility effects** :

### 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 |
|---|---|---|---|
| n-butyl acetate | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| | Acute LC50 62000 µg/l | Fish - Danio rerio | 96 hours |
| heptan-2-one | Acute LC50 131000 to 137000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| heptane | Acute LC50 375000 µg/l Fresh water | Fish - Oreochromis mossambicus | 96 hours |
| Distillates (petroleum), hydrotreated light | Acute LC50 2200 µg/l Fresh water | Fish - Lepomis macrochirus | 4 days |
| pentan-2-one | Acute LC50 1240000 to 1290000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Isopropyl alcohol | Acute EC50 10100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1400000 to 1950000 µg/l Marine water | Crustaceans - Crangon crangon | 48 hours |
| | Acute LC50 4200 mg/l Fresh water | Fish - Rasbora heteromorpha | 96 hours |
| butan-1-ol | Acute EC50 1983000 to 2072000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1910000 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| Methyl isobutyl ketone | Acute LC50 505000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 78 mg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 168 mg/l Fresh water | Fish - Pimephales promelas - Embryo | 33 days |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| n-butyl acetate | 2.3 | - | low |
| ethyl 3-ethoxypropionate | 1.47 | - | low |
| heptan-2-one | 2.26 | - | low |
| heptane | 4.66 | 552 | high |
| Naphtha (petroleum), hydrotreated heavy | - | 10 to 2500 | high |
| pentan-2-one | 0.91 | - | low |
| Stoddard solvent | 3.16 to 7.06 | - | high |
| Isopropyl alcohol | 0.05 | - | low |
| butan-1-ol | 1 | - | low |
| Naphtha (petroleum), hydrotreated light | 2.2 to 5.2 | 10 to 2500 | high |
| Hexamethylene diisocyanate, oligomers | 5.54 | 367.7 | low |
| Methyl isobutyl ketone | 1.9 | - | low |

### 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

## SECTION 12: Ecological information

**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**

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

**Disposal considerations** : Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).
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* | packaging containing residues of or contaminated by hazardous substances |

## SECTION 13: Disposal considerations

**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  | 3  | 3  |
| **Packing group** | II | II | II |
| **Environmental hazards** | Yes. | heptane, Stoddard solvent | No. |
| **Additional information** | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br>**Special provisions**<br>640 (C)<br><br>**Tunnel code**<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.

## SECTION 15: Regulatory information

**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.

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

Not listed.

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

Not listed.

**Seveso Directive**

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** : 5

**EU statistical classification (Tariff Code)** : 320820

Indicates information that has changed from previously issued version.

## SECTION 16: Other information

**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. 2, H225 | On basis of test data |
| Eye Irrit. 2, H319 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

**Full text of abbreviated H statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| 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. |
| H373 (inhalation) | May cause damage to organs through prolonged or repeated exposure if inhaled. |
| 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 |
| Asp. Tox. 1, H304 | ASPIRATION HAZARD - Category 1 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| Eye Dam. 1, H318 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Eye Irrit. 2, H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Flam. Liq. 2, H225 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3, H226 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Corr. 1B, H314 | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2, H315 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1, H317 | SKIN SENSITIZATION - Category 1 |
| STOT RE 2, H373 (inhalation) | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 2 |
| STOT SE 3, H335 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| STOT SE 3, H336 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |

## SECTION 16: Other information

### 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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