

# 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** : GRIP/4  
**Product name** : GRIP 4 ADHESION PROMOTER TOLUENE FREE  
**Product type** : Aerosol.  
**Other means of identification** : Not available.  
**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 Irrit. 2, H319  
 STOT SE 3, H336

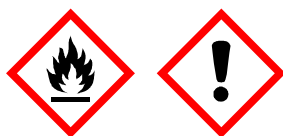
The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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.

**SECTION 2: Hazards identification****2.2 Label elements****Hazard pictograms**

:

**Signal word**

: Danger

**Contains**

: butanone

**Hazard statements**

: H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if heated.  
 H319 - Causes serious eye irritation.  
 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.  
 P261 - Avoid breathing dust or mist.  
 P251 - Do not pierce or burn, even after use.

**Response**

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**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.  
 EUH205 - Contains epoxy constituents. 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.

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

: Mixture

Product/ingredient name	Identifiers	%	Classification	Type
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
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]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312	[1]

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

tributyl phosphate	EC: 905-588-0  EC: 204-800-2 CAS: 126-73-8	≤0.3	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]
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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** : 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. Get medical attention.
- Inhalation** : 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. Get medical attention. If necessary, call a poison center or physician. 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.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Get medical attention. If necessary, call a poison center or 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.

**4.2 Most important symptoms and effects, both acute and delayed**Over-exposure signs/symptoms

## SECTION 4: First aid measures

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation dryness cracking
<b>Ingestion</b>	: No specific data.

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

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
<b>Unsuitable extinguishing media</b>	: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
<b>Hazardous combustion products</b>	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
<b>Special protective equipment for fire-fighters</b>	: Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

<b>6.2 Environmental precautions</b>	: 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.
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**SECTION 6: Accidental release measures****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.

**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**

butanone	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 899 mg/m <sup>3</sup> . STEL 15 minutes: 300 ppm. TWA 8 hours: 600 mg/m <sup>3</sup> . TWA 8 hours: 200 ppm.
dimethyl ether	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 958 mg/m <sup>3</sup> . STEL 15 minutes: 500 ppm. TWA 8 hours: 400 ppm. TWA 8 hours: 766 mg/m <sup>3</sup> .
tributyl phosphate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020) [tributyl phosphate, all isomers]</b> STEL 15 minutes: 5 mg/m <sup>3</sup> . TWA 8 hours: 5 mg/m <sup>3</sup> .

**Biological exposure indices**

Product/ingredient name	Exposure indices
butanone	<b>EH40/2005 BMGVs (United Kingdom (UK), 1/2020)</b> BGV: 70 µmol/l, butan-2-one [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**

butanone

**Result****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/m<sup>3</sup>Effects: Systemic**DNEL - General population - Long term - Dermal**

412 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Inhalation**450 mg/m<sup>3</sup>Effects: Systemic**DNEL - Workers - Long term - Inhalation**600 mg/m<sup>3</sup>Effects: Systemic**DNEL - Workers - Short term - Inhalation**900 mg/m<sup>3</sup>Effects: Systemic

SECTION 8: Exposure controls/personal protection

	<b>DNEL - Workers - Long term - Dermal</b> 1161 mg/kg bw/day <u>Effects</u> : Systemic
dimethyl ether	<b>DNEL - General population - Long term - Inhalation</b> 471 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 1894 mg/m³ <u>Effects</u> : Systemic
Reaction mass of ethylbenzene and xylene	<b>DNEL - Workers - Long term - Dermal</b> 212 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 221 mg/m³ <u>Effects</u> : Systemic
tributyl phosphate	<b>DNEL - General population - Long term - Oral</b> 0.22 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 0.22 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 0.57 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 0.77 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 4.4 mg/m³ <u>Effects</u> : Systemic
<b><u>PNECs</u></b>	
<b>Product/ingredient name</b>	<b>Result</b>
butanone	<b>Fresh water</b> 55.8 mg/l
	<b>Sewage Treatment Plant</b> 709 mg/l
	<b>Fresh water sediment</b> 284.7 mg/kg
	<b>Marine water sediment</b> 284.7 mg/kg
	<b>Marine water</b> 55.8 mg/l
	<b>Sewage Treatment Plant</b> 22.5 mg/kg
Reaction mass of ethylbenzene and xylene	<b>Fresh water</b> 0.327 mg/l

**SECTION 8: Exposure controls/personal protection****Marine water**

0.327 mg/l

**Sewage Treatment Plant**

6.58 mg/l

**Fresh water sediment**

12.46 mg/kg dwt

**Marine water sediment**

12.46 mg/kg dwt

**Soil**

2.31 mg/kg

**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**

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.



**SECTION 8: Exposure controls/personal protection**

**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**

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: Milky.
<b>Odour</b>	: Characteristic.
<b>Odour threshold</b>	: Not available.
<b>Melting point/freezing point</b>	: Technically not possible to measure
<b>Initial boiling point and boiling range</b>	: Not applicable.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Upper/lower flammability or explosive limits</b>	: Lower: 1% Upper: 26.2% Not available.
<b>Flash point</b>	: Closed cup: -41°C (-41.8°F)
<b>Auto-ignition temperature</b>	: 350°C (662°F)
<b>Decomposition temperature</b>	: Not applicable.
<b>pH</b>	: Not applicable.
<b>Viscosity</b>	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.
<b>Solubility in water</b>	: Not available.
<b>Miscible with water</b>	: Yes.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Vapour pressure</b>	: 236 kPa (1770.1 mm Hg)
<b>Relative density</b>	: Not available.
<b>Density</b>	: 0.739 g/cm <sup>3</sup>
<b>Vapour density</b>	: Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.
<b>Weight volatiles</b>	: 98.9 % (w/w)
<b>VOC content</b>	: 98.9 % (w/w) (2010/75/EU)

**9.2 Other information****9.2.1 Information with regard to physical hazard classes**

**Heat of combustion** : 31.62 kJ/g

**Aerosol product**

GRIP 4 ADHESION PROMOTER TOLUENE FREE

SECTION 9: Physical and chemical properties

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  
butanone

Result  
Rabbit - Dermal - LD50  
6480 mg/kg

Rat - Oral - LD50  
2737 mg/kg

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

Reaction mass of ethylbenzene and xylene

Rat - Oral - LD50  
3523 to 4000 mg/kg

Rabbit - Dermal - LD50  
121236 mg/kg

SECTION 11: Toxicological information

tributyl phosphate	<b>Rat - Inhalation - LC50 Vapour</b> 6350 to 6700 ppm [4 hours]
	<b>Rat - Oral - LD50</b> 1390 mg/kg
	<b>Rat - Inhalation - LC50 Dusts and mists</b> 28000 mg/m³ [1 hours]

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	N/A	16657.2	N/A	166.6	N/A
butanone	2737	6480	N/A	N/A	N/A
dimethyl ether	N/A	N/A	164000	309	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
tributyl phosphate	1390	N/A	N/A	N/A	7

Skin corrosion/irritation

Product/ingredient name	Result
butanone	<b>Rabbit - Skin - Mild irritant</b> Duration of treatment/exposure: 24 hours Amount/concentration applied: 14 mg
	<b>Rabbit - Skin - Mild irritant</b> Duration of treatment/exposure: 24 hours Amount/concentration applied: 402 mg
	<b>Rabbit - Skin - Moderate irritant</b> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg
tributyl phosphate	<b>Guinea pig - Skin - Mild irritant</b> Duration of treatment/exposure: 24 hours Amount/concentration applied: 10 %
	<b>Rabbit - Skin - Severe irritant</b> Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
tributyl phosphate	<b>Rabbit - Eyes - Mild irritant</b> Amount/concentration applied: 100 mg
	<b>Rabbit - Eyes - Severe irritant</b> Amount/concentration applied: 500 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.

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
butanone	STOT SE 3, H336 (Narcotic effects)
Reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	STOT RE 2, H373

Aspiration hazard

Product/ingredient name	Result
Reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye irritation.
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.

**SECTION 11: Toxicological information****Symptoms related to the physical, chemical and toxicological characteristics**

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Adverse symptoms may include the following: irritation dryness cracking
<b>Ingestion</b>	: No specific data.

**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**

butanone

**Result****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**

SECTION 12: Ecological information

	Algae - Diatom - <i>Skeletonema costatum</i> >500 mg/l [96 hours] <u>Effect</u> : Population
Reaction mass of ethylbenzene and xylene	<b>Acute - LC50</b> OECD 203 Fish - Trout - <i>Oncorhynchus mykiss</i> 2.6 mg/l [96 hours]  <b>Acute - LC50</b> OECD 202 Daphnia - Daphnia - <i>Daphnia magna</i> 1 mg/l [24 hours]  <b>Acute - EC50</b> OECD 201 Algae - Algae - <i>Selenastrum capricornutum</i> 2.2 mg/l [73 hours]  <b>Chronic - NOEC</b> OECD 301F Micro-organism - Activated sludge - <i>Activated sludge</i> 16 mg/l [28 days]
tributyl phosphate	<b>Acute - EC50 - Fresh water</b> Algae - Green algae - <i>Desmodesmus subspicatus</i> - Exponential growth phase 1.1 mg/l [72 hours] <u>Effect</u> : Population  <b>Acute - LC50 - Fresh water</b> Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Fry <u>Weight</u> : 0.15 g 4.2 mg/dm³ [96 hours] <u>Effect</u> : Mortality  <b>Chronic - EC10 - Fresh water</b> Algae - Green algae - <i>Desmodesmus subspicatus</i> - Exponential growth phase 0.37 mg/l [72 hours] <u>Effect</u> : Population  <b>Acute - LC50 - Fresh water</b> OECD Daphnia - Water flea - <i>Daphnia magna</i> - Neonate <u>Age</u> : 8 to 24 hours 1.17 mg/l [48 hours] <u>Effect</u> : Mortality  <b>Chronic - NOEC - Fresh water</b> Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : ≤24 hours 1.3 mg/l [21 days] <u>Effect</u> : Reproduction

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

**SECTION 12: Ecological information****Conclusion/Summary [Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
tributyl phosphate	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
butanone	0.3	-	Low
dimethyl ether	0.07	-	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low
tributyl phosphate	4	29.51	Low

**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
butanone	No	N/A	N/A	No	N/A	N/A	N/A
dimethyl ether	No	N/A	N/A	No	N/A	N/A	N/A
Reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
tributyl phosphate	No	N/A	No	No	No	N/A	No

**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.

GRIP 4 ADHESION PROMOTER TOLUENE FREE

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.	No.	No.	No.

**Additional information**

ADR/RID : Tunnel code (D)

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



**SECTION 15: Regulatory information****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 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 Eye Irrit. 2, H319 STOT SE 3, H336	On basis of test data Calculation method 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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**SECTION 16: Other information****Full text of classifications**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
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
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

**Date of issue/ Date of revision** : 6/19/2025

**Version** : 1

**Date of previous issue** : No previous validation

**Notice to reader**

This product is intended for industrial use only.

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