

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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

1.1 Product identifier

Product identifier : HIGHVG/AL
Product name : HIGH 5 GREY AEROSOL MIR COMPLIANT
Product type : Aerosol.
Appearance : Aerosol.
Other means of identification : Not available.
Date of issue/ Date of revision : 13 May 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

National contact

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

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : 010-456 6700 (9:00-17:00);112

Supplier

+(44)-870-8200418

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]

Aerosol 1, H222, H229

Eye Irrit. 2, H319

Skin Sens. 1, H317

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

Hazard pictograms :



Signal word : Danger

Contains : butanone
maleic anhydride

Hazard statements : H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
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.
P273 - Avoid release to the environment.
P251 - Do not pierce or burn, even after use.

Response : Not applicable.

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.

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

SECTION 2: Hazards identification

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	%	Classification	Specific Conc. Limits, M-factors and ATEs	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]
Petroleum gases, liquefied	REACH #: Annex V EC: 270-704-2 CAS: 68476-85-7 Index: 649-202-00-6	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[1]
methyl acetate	EC: 201-185-2 CAS: 79-20-9 Index: 607-021-00-X	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
cyclohexane	REACH #: 01-2119463273-41 EC: 203-806-2 CAS: 110-82-7 Index: 601-017-00-1	≤3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	-	[1] [2]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]

SECTION 3: Composition/information on ingredients

			See Section 16 for the full text of the H statements declared above.		
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There are no 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.

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

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. 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 maleic anhydride. 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. |
|---------------------------|---|

SECTION 4: First aid measures

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, CO₂, 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 combustion products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Avoid breathing 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 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.

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.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P3a E2	150 tonnes 200 tonnes	500 tonnes 500 tonnes

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	Identifiers	Exposure limit values
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 50 ppm. TWA 8 hours: 150 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ . EU OEL (Europe, 1/2022) TWA 8 hours: 200 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
methyl acetate	EC: 201-185-2 CAS: 79-20-9 Index: 607-021-00-X	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 150 ppm. TWA 8 hours: 450 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 900 mg/m ³ .
cyclohexane	REACH #: 01-2119463273-41 EC: 203-806-2 CAS: 110-82-7 Index: 601-017-00-1	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 200 ppm. TWA 8 hours: 700 mg/m ³ . EU OEL (Europe, 1/2022) TWA 8 hours: 700 mg/m ³ . TWA 8 hours: 200 ppm.
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1	Work environment authority Regulation 2018:1 (Sweden, 11/2022) TWA 8 hours: 250 ppm. TWA 8 hours: 600 mg/m ³ . STEL 15 minutes: 500 ppm. STEL 15 minutes: 1200 mg/m ³ . EU OEL (Europe, 1/2022) TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m ³ .
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	Work environment authority Regulation 2018:1 (Sweden, 11/2022) Sensitizer. TWA 8 hours: 0.05 ppm. TWA 8 hours: 0.2 mg/m ³ . STEL 15 minutes: 0.1 ppm. STEL 15 minutes: 0.4 mg/m ³ .

Biological exposure indices

No exposure indices known.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures

: 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

Product/ingredient name	Result
butanone	DNEL - Workers - Long term - Inhalation 200.539 ppm <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 31 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 106 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 412 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 450 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 600 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 900 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 1161 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 21.5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 21.5 mg/kg bw/day <u>Effects</u> : Systemic
methyl acetate	DNEL - Workers - Long term - Dermal 43 mg/kg bw/day <u>Effects</u> : Systemic

SECTION 8: Exposure controls/personal protection

cyclohexane

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

DNEL - General population - Long term - Inhalation
133 mg/m³
Effects: Local

DNEL - General population - Short term - Oral
203 mg/kg bw/day
Effects: Systemic

DNEL - General population - Short term - Dermal
203 mg/kg bw/day
Effects: Systemic

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

DNEL - General population - Short term - Inhalation
3777 mg/m³
Effects: Systemic

DNEL - Workers - Short term - Inhalation
3777 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
620 mg/m³
Effects: Local

DNEL - General population - Long term - Oral
59.4 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
206 mg/m³
Effects: Local

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

DNEL - General population - Short term - Inhalation
412 mg/m³
Effects: Local

DNEL - General population - Short term - Inhalation
412 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
700 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation

SECTION 8: Exposure controls/personal protection

	700 mg/m³ Effects: Systemic
	DNEL - General population - Long term - Dermal 1186 mg/kg bw/day Effects: Systemic
	DNEL - Workers - Short term - Inhalation 1400 mg/m³ Effects: Local
	DNEL - Workers - Short term - Inhalation 1400 mg/m³ Effects: Systemic
	DNEL - Workers - Long term - Dermal 2016 mg/kg bw/day Effects: Systemic
acetone	DNEL - Workers - Long term - Inhalation 500 ppm Effects: Systemic
	DNEL - Workers - Long term - Dermal 186 mg/kg bw/day Effects: Systemic
	DNEL - Workers - Long term - Inhalation 1210 mg/m³ Effects: Systemic
	DNEL - Workers - Short term - Inhalation 2420 mg/m³ Effects: Local
maleic anhydride	DNEL - Workers - Short term - Dermal 0.04 mg/kg Effects: Systemic
	DNEL - Workers - Long term - Inhalation 0.4 mg/cm² Effects: Systemic
	DNEL - General population - Long term - Inhalation 0.05 mg/m³ Effects: Systemic
	DNEL - General population - Long term - Oral 0.06 mg/kg bw/day Effects: Systemic
	DNEL - General population - Long term - Inhalation 0.08 mg/m³ Effects: Local
	DNEL - Workers - Long term - Inhalation 0.081 mg/m³

SECTION 8: Exposure controls/personal protection

Effects: Local

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

DNEL - General population - Short term - Oral
0.1 mg/kg bw/day
Effects: Systemic

DNEL - General population - Short term - Dermal
0.1 mg/kg bw/day
Effects: Systemic

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

DNEL - Workers - Short term - Dermal
0.2 mg/kg bw/day
Effects: Systemic

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

DNEL - Workers - Short term - Inhalation
0.2 mg/m³
Effects: Local

DNEL - Workers - Short term - Inhalation
0.2 mg/m³
Effects: Systemic

PNECs

Product/ingredient name
butanone

Result
Fresh water
55.8 mg/l

Sewage Treatment Plant
709 mg/l

Fresh water sediment
284.7 mg/kg

Marine water sediment
284.7 mg/kg

Marine water
55.8 mg/l

acetone

Sewage Treatment Plant
22.5 mg/kg

Fresh water
10.6 mg/l

SECTION 8: Exposure controls/personal protection

maleic anhydride

Marine water sediment

1.06 mg/l

Sediment

30.4 mg/kg

Marine water sediment

3.04 mg/kg

Soil

29.5 mg/kg

Sewage Treatment Plant

100 mg/l

Marine water

0.004281 mg/l

Fresh water

0.04281 mg/l

Sediment

0.334 mg/l

8.2 Exposure controls

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

SECTION 8: Exposure controls/personal protection

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Gray.
Odor	: Not available.
Odor threshold	: Not available.
Melting point/freezing point	: Technically not possible to measure
Boiling point or initial boiling point and boiling range	: Not applicable.
Flammability	: Not available.
Lower and upper explosion limit	: Lower: 1% Upper: 16%
Lower and upper explosive (flammable) limits	: Not available.
Flash point	: Closed cup: -60°C
Auto-ignition temperature	: 260°C
Decomposition temperature	: Not applicable.
pH	: Not applicable.
Justification	: Not available.

SECTION 9: Physical and chemical properties

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

Solubility :

Media	Result
cold water	Soluble

Vapor pressure 142 kPa (1065.4 mm Hg)

Density : 0.748 g/cm³

Weight volatiles : 79 % (w/w)

VOC content : 79 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Heat of combustion : 13.96 kJ/g

Aerosol product

Type of aerosol : Spray

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : Yes.

Further information Not available.

room temperature (=20°C)

SECTION 10: Stability and reactivity

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

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

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

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

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing 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 hazard classes as defined in Regulation (EC) No 1272/2008

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 maleic anhydride. May produce an allergic reaction.

Acute toxicity	
Product/ingredient name	Result
butanone	Rabbit - Dermal - LD50 6480 mg/kg
	Rat - Oral - LD50 2737 mg/kg
methyl acetate	Rat - Oral - LD50 >5 g/kg
	Rabbit - Dermal - LD50 >5 g/kg
cyclohexane	Rat - Oral - LD50 6240 mg/kg
	<u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Gastrointestinal - Changes in structure or function of salivary glands Gastrointestinal - Hypermotility, diarrhea
acetone	Rat - Oral - LD50 5800 mg/kg
	<u>Toxic effects:</u> Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor
	Rabbit - Dermal - LD50 2001 mg/kg
	Rat - Inhalation - LC50 Vapor 21 mg/l [4 hours]
maleic anhydride	Rat - Oral - LD50 400 mg/kg
	Rabbit - Dermal - LD50 2620 mg/kg

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
butanone	2737	6480	N/A	N/A	N/A
cyclohexane	6240	N/A	N/A	N/A	N/A
acetone	5800	2001	N/A	21	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

butanone

Result

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 14 mg

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 402 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

methyl acetate

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

acetone

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 395 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

methyl acetate

Result

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

cyclohexane

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 MI

acetone

Human - Eyes - Mild irritant

Amount/concentration applied: 186300 ppm

SECTION 11: Toxicological information

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 10 uL

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

maleic anhydride

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1 %

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
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SECTION 11: Toxicological information

butanone	STOT SE 3, H336 (Narcotic effects)
methyl acetate	STOT SE 3, H336 (Narcotic effects)
cyclohexane	STOT SE 3, H336 (Narcotic effects)
acetone	STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
maleic anhydride	STOT RE 1, H372 (respiratory system) (inhalation)

Aspiration hazard

Product/ingredient name	Result
cyclohexane	ASPIRATION HAZARD - Category 1

Information on the 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. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

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

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.

SECTION 11: Toxicological information

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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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.

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

Algae - Diatom - *Skeletonema costatum*

>500 mg/l [96 hours]

Effect: Population

methyl acetate

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 28 to 32 days; Size: 17.5 mm; Weight: 0.087 g

320 mg/l [96 hours]

Effect: Mortality

cyclohexane

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

SECTION 12: Ecological information

	Age: 30 days; Size: 20.5 mm; Weight: 0.119 g 4530 µg/l [96 hours] Effect: Mortality
acetone	Acute - LC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> 10 mg/l [48 hours] Effect: Mortality Chronic - NOEC - Marine water Algae - Green algae - <i>Ulva pertusa</i> 4.95 mg/l [96 hours] Effect: Reproduction Acute - EC50 - Marine water Algae - Green algae - <i>Ulva pertusa</i> 20.565 mg/l [96 hours] Effect: Reproduction Chronic - NOEC - Fresh water Crustaceans - Daphnia - <i>Daphniidae</i> 0.016 ml/l [21 days] Effect: Population Acute - LC50 - Fresh water Fish - Guppy - <i>Poecilia reticulata</i> Age: 4 to 12 months; Size: 2 to 10 cm; Weight: 0.5 to 14 g 5600 ppm [96 hours] Effect: Mortality Chronic - NOEC - Marine water Fish - Mummichog - <i>Fundulus heteroclitus</i> Size: 7.24 cm; Weight: 6.71 g 0.1 mg/l [4 weeks] Effect: Population
maleic anhydride	Acute - LC50 - Fresh water Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult 230 ppm [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name	Result
acetone	OECD [Ready Biodegradability - CO ₂ Evolution Test] 90.9% [28 days] - Readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
butanone	0.3	-	Low
Petroleum gases, liquefied	1.09	-	Low
methyl acetate	0.18	-	Low
cyclohexane	3.44	167	Low
acetone	-0.23	-	Low
maleic anhydride	-2.78	-	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
butanone	1.2	15.8984
methyl acetate	0.9	7.88083
cyclohexane	1.98	96.5031
acetone	0.56	3.6548
maleic anhydride	1.06	11.4841

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
butanone	No	No	Yes	No	No	No	Yes
Petroleum gases, liquefied	No	No	No	No	No	No	No
methyl acetate	No	No	Yes	No	No	No	Yes
cyclohexane	No	No	Yes	No	No	No	Yes
acetone	No	No	Yes	No	No	No	Yes
maleic anhydride	No	No	Yes	Yes	No	No	Yes

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
butanone	No	No	No	No	No	No	No
Petroleum gases, liquefied	No	No	No	No	No	No	No
methyl acetate	No	No	No	No	No	No	No
cyclohexane	No	No	No	No	No	No	No
acetone	No	No	No	No	No	No	No
maleic anhydride	No	No	No	Yes	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
butanone	No	No	No	No	No	No	No
Petroleum gases, liquefied	No	No	No	No	No	No	No
methyl acetate	No	No	No	No	No	No	No
cyclohexane	No	No	No	No	No	No	No
acetone	No	No	No	No	No	No	No
maleic anhydride	No	No	No	Yes	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.

Regulation (EC) No. 1272/2008
[CLP]

SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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. 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.

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

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID 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	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code (D)

ADN

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Marine pollutant

: cyclohexane

IATA

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

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

: Not applicable.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

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

SECTION 15: Regulatory information

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

Explosive precursors : This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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.

National regulations

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.

Flammable liquid class (SRVFS 2005:10) : 1

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 : 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
B = Bioaccumulative
BCF = Bioconcentration Factor
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
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods

SECTION 16: Other information

by Rail
 RRN = REACH Registration Number
 SGG = Segregation Group
 T = Toxic
 vB = Very Bioaccumulative
 vM = Very Mobile
 vP = Very Persistent
 vPvB = Very Persistent and Very Bioaccumulative
 vPvM = Very Persistent and Very Mobile

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

Classification	Justification
Aerosol 1, H222, H229 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H220 H222, H229	Extremely flammable gas. Extremely flammable aerosol. Pressurized container: may burst if heated.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 4 Aerosol 1 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Gas 1A Flam. Liq. 2 Press. Gas (Comp.) Resp. Sens. 1 Skin Corr. 1B Skin Irrit. 2	ACUTE TOXICITY - Category 4 AEROSOLS - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 1A FLAMMABLE LIQUIDS - Category 2 GASES UNDER PRESSURE - Compressed gas RESPIRATORY SENSITIZATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2
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SECTION 16: Other information

Skin Sens. 1 Skin Sens. 1A STOT RE 1 STOT SE 3	SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
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Version : 1

Date of previous issue : No previous validation

Notice to reader

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