



SAFETY DATA SHEET

Holts Grey Primer

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

1.1. Product identifier

Product name	Holts Grey Primer
Product number	RF0185D
UFI	UFI: 8G96-C08Y-400R-MR3V
REACH registration notes	This is a MIXTURE; no registration information contained in this document . Holts are classed as Downstream User.

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

Identified uses	Car maintenance product. Primer.
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1.3. Details of the supplier of the safety data sheet

Supplier	Holt Lloyd Services 52 Rue des 40 Mines, 60000 – Allonne, France Phone: +33 (0)3 64 99 00 32 info@holtsauto.com
Contact person	Contact email address: info@holtsauto.com
Manufacturer	Holt Lloyd International Ltd Barton Dock Road Stretford Manchester M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 www.holtsauto.com

1.4. Emergency telephone number

Emergency telephone	UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs
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National emergency telephone number +43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)
 +32022649636; info@poisoncentre.be (Belgium)
 +359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria)
 +38514686910; toksikologija@hzjz.hr (Croatia)
 +35722405611; cy-chemregistry@dlm.msi.gov.cy (Cyprus)
 +420267082257; biocidy@mzcr.cz (Czech Republic)
 +45 72 54 40 00; mst@mst.dk (Denmark)
 +372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia)
 +358 5052 000; kirjaamo@tukes.fi (Finland)
 + 33 3 83 85 21 92; bnpc@chru-nancy.fr (France)
 +49-30-18412-0; bfr@bfr.bund.de (Germany)
 +302106479250; +302106479450; devxp.gcsf@aade.gr, environment.gcsf@aade.gr (Greece)
 +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary)
 +354 543 22 22; eiturf@landspitali.is (Iceland)
 +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland)
 +390649906140; inscweb@iss.it (Italy)
 +371 67032600; lvgmc@lvgmc.lv (Latvia)
 +370 70662008; aaa@aaa.am.lt (Lithuania)
 +320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu (Luxembourg)
 +356 2395 2000; info@mccaa.org.mt (Malta)
 +31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands)
 +4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no (Norway)
 +48 42 2538 400; biuro@chemikalia.gov.pl (Poland)
 +351 800 250 250; ciav.tox@inem.pt (Portugal)
 +40213183606; infotox@insp.gov.ro (Romania)
 +7 495 621 6885; +7 495 628 1687; rtiac@mail.ru; rtiac2003@yahoo.com (Russia)
 +421 2 5465 2307; ntac@ntac.sk (Slovakia)
 + 386 1 522 1293; gp.ukc@kclj.si (Slovenia)
 +34 917689800; intcf.doc@justicia.es (Spain)
 +46104566750; giftinformation@gic.se (Sweden)
 +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Eye Dam. 1 - H318 STOT SE 3 - H336
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word

Danger

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Hazard statements	<p>H222 Extremely flammable aerosol.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H318 Causes serious eye damage.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
Precautionary statements	<p>P102 Keep out of reach of children.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P261 Avoid breathing spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
UFI	UFI: 8G96-C08Y-400R-MR3V
Contains	ACETONE, n-BUTYL ACETATE, n-BUTANOL, PROPAN-2-OL
Supplementary precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ACETONE			30-60%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-XXXX	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			
BUTANE			10-30%
CAS number: 106-97-8	EC number: 203-448-7	REACH registration number: 01-2119474691-32-XXXX	
Classification Flam. Gas 1A - H220 Press. Gas			

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n-BUTYL ACETATE			10-30%
CAS number: 123-86-4	EC number: 204-658-1	REACH registration number: 01-2119485493-29-XXXX	
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336			
PROPANE			10-30%
CAS number: 74-98-6	EC number: 200-827-9	REACH registration number: 01-2119486944-21-XXXX	
Classification Flam. Gas 1A - H220			
ISOBUTANE			5-10%
CAS number: 75-28-5	EC number: 200-857-2	REACH registration number: 01-2119485395-27-XXXX	
Classification Flam. Gas 1A - H220 Press. Gas			
2-METHOXY-1-METHYLETHYL ACETATE			5-10%
CAS number: 108-65-6	EC number: 203-603-9	REACH registration number: 01-2119475791-29-XXXX	
Classification Flam. Liq. 3 - H226			
n-BUTANOL			1-5%
CAS number: 71-36-3	EC number: 200-751-6	REACH registration number: 01-2119484630-38-XXXX	
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336			

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TRIZINC BIS(ORTHOPHOSPHATE)			1-5%
CAS number: 7779-90-0	EC number: 231-944-3	REACH registration number: 01-2119485044-40-XXXX	
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

PROPAN-2-OL			1-5%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			

N-Ethyl-2-pyrrolidone			<1%
CAS number: 2687-91-4	EC number: 220-250-6		
Classification Eye Dam. 1 - H318 Repr. 1A - H360D			

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention immediately.
Ingestion	Not relevant.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Get medical attention promptly if symptoms occur after washing.
Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	Due to the physical nature of this material it is unlikely that swallowing will occur.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Causes serious eye damage.

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

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Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Specific hazards Risk of explosion if heated. Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. Provide adequate ventilation.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid inhalation of vapours. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

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n-BUTYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

ISOBUTANE

Long-term exposure limit (8-hour TWA): OES 800 ppm

Short-term exposure limit (15-minute): OES 800 ppm

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 274 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 548 mg/m³(Sk)

n-BUTANOL

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 154 mg/m³(Sk)

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit.

Ingredient comments

WEL = Workplace Exposure Limits

ACETONE (CAS: 67-64-1)

DNEL

Consumer - Oral; Long term systemic effects: 62 mg/kg/day
 Workers - Dermal; Long term systemic effects: 186 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 62 mg/kg/day
 Workers - Inhalation; Short term local effects: 2420 mg/m³
 Workers - Inhalation; Long term systemic effects: 1210 mg/m³
 Consumer - Inhalation; Long term systemic effects: 200 mg/m³

PNEC

Fresh water; 10.6 mg/l
 marine water; 1.06 mg/l
 Intermittent release; 21 mg/l
 Sediment (Freshwater); 30.4 mg/kg
 Sediment (Marinewater); 3.04 mg/kg
 Soil; 29.5 mg/kg
 STP; 100 mg/l

n-BUTYL ACETATE (CAS: 123-86-4)

DNEL

Workers - Inhalation; Long term systemic effects: 300 mg/m³
 Workers - Inhalation; Short term systemic effects: 600 mg/m³
 Workers - Inhalation; Long term local effects: 300 mg/m³
 Workers - Inhalation; Short term local effects: 600 mg/m³
 Workers - Dermal; Long term systemic effects: 11 mg/kg bw/day
 Workers - Dermal; Short term systemic effects: 11 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 35.7 mg/m³
 General population - Inhalation; Short term systemic effects: 300 mg/m³
 General population - Inhalation; Long term local effects: 35.7 mg/m³
 General population - Inhalation; Short term local effects: 300 mg/m³
 General population - Dermal; Long term systemic effects: 6 mg/kg bw/day
 General population - Dermal; Short term systemic effects: 6 mg/kg bw/day
 General population - Oral; Long term systemic effects: 2 mg/kg bw/day
 General population - Oral; Short term systemic effects: 6 mg/kg bw/day

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PNEC	Fresh water; 0.18 mg/l
	marine water; 0.018 mg/l
	STP; 35.6 mg/l
	Sediment (Freshwater); 0.981 mg/kg sediment dry weight
	Sediment (Marinewater); 0.098 mg/kg sediment dry weight
	Soil; 0.09 mg/kg soil dry weight

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

DNEL	Workers - Inhalation; Long term systemic effects: 275 mg/m ³
	Workers - Inhalation; Short term local effects: 550 mg/m ³
	Workers - Dermal; Long term systemic effects: 796 mg/kg bw/day
	General population - Inhalation; Long term systemic effects: 33 mg/m ³
	General population - Inhalation; Long term local effects: 33 mg/m ³
	General population - Dermal; Long term systemic effects: 320 mg/kg bw/day
	General population - Oral; Long term systemic effects: 36 mg/kg bw/day

PNEC	Fresh water; 0.635 mg/l
	marine water; 0.064 mg/l
	STP; 100 mg/l
	Sediment (Freshwater); 3.29 mg/kg sediment dry weight
	Sediment (Marinewater); 0.329 mg/kg sediment dry weight
	Soil; 0.29 mg/kg soil dry weight

n-BUTANOL (CAS: 71-36-3)

DNEL	Workers - irritation (respiratory tract); Long term local effects: 310 mg/m ³
	General population - irritation (respiratory tract); Long term systemic effects: 55.357 mg/m ³
	General population - irritation (respiratory tract); Long term local effects: 155 mg/m ³
	General population - Dermal; Long term systemic effects: 3.125 mg/kg/day
	General population - Oral; Long term systemic effects: 1.562 mg/kg/day

PNEC	Fresh water; 0.082 mg/l
	Fresh water, Intermittent release; 2.25 mg/l
	marine water; 0.008 mg/l
	STP; 2476 mg/l
	Sediment (Freshwater); 0.324 mg/kg
	Sediment (Marinewater); 0.032 mg/kg
	Soil; 0.017 mg/kg

PROPAN-2-OL (CAS: 67-63-0)

DNEL	Workers - Inhalation; Long term systemic effects: 500 mg/m ³
	Workers - Dermal; Long term systemic effects: 888 mg/kg/day
	General population - Inhalation; Long term systemic effects: 89 mg/m ³
	General population - Dermal; Long term systemic effects: 319 mg/kg/day
	General population - Oral; Long term systemic effects: 26 mg/kg/day

PNEC	Fresh water; Long term 140.9 mg/l
	marine water; Long term 140.9 mg/l
	Sediment (Freshwater); Long term 552 mg/kg sediment dry weight
	Sediment (Marinewater); Long term 552 mg/kg sediment dry weight
	Soil; Long term 28 mg/kg soil dry weight

TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)

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DNEL

Workers - Inhalation; Long term systemic effects: 5 mg/m³
 Workers - Dermal; Long term systemic effects: 83 mg/kg/day
 Workers - Hazard for the eyes
 no hazard identified
 General population - Inhalation; Long term systemic effects: 2.5 mg/m³
 General population - Dermal; Long term systemic effects: 83 mg/kg/day
 General population - Oral; Long term systemic effects: 0.83 mg/kg/day
 General Population - Hazard for the eyes
 no hazard identified

PNEC

Fresh water; 20.6 µg/l
 marine water; 6.1 µg/l
 STP; 100 µg/l
 Sediment (Freshwater); 117.8 mg/kg sediment dry weight
 Sediment (Marinewater); 56.5 mg/kg sediment dry weight
 Soil; 35.6 mg/kg soil dry weight

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Rubber (natural, latex). EN374

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Grey.
Odour	Acetone.
Flash point	<0°C Closed cup.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 4.8 % Upper flammable/explosive limit: 9.5 %
Relative density	0.860 - 0.900 @ 20°C

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Solubility(ies) Slightly soluble in water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on data of the components and of similar products.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 12,469.97

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met. Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

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Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations. May cause eye and respiratory system irritation. Symptoms following overexposure may include the following: Headache. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Causes serious eye damage.

Toxicological information on ingredients.

ACETONE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,800.0

Species Rat

ATE oral (mg/kg) 5,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 7,400.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 76.0

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies. REACH dossier information.

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Central and/or peripheral nervous system damage. Narcotic effects

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

BUTANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

PROPANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

ISOBUTANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

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Species	Rat
ATE oral (mg/kg)	5,000.0

2-METHOXY-1-METHYLETHYL ACETATE

Acute toxicity - oral

Notes (oral LD₅₀)	LD ₅₀ > 5000 mg/kg, Oral, Rat
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Acute toxicity - dermal

Notes (dermal LD₅₀)	LD ₅₀ > 5000 mg/kg, Dermal, Rabbit
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Acute toxicity - inhalation

Notes (inhalation LC₅₀)	LC0 8100 mg/m ³ , 4 hours, Vapour Rat
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Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.
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Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.
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Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.
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Skin sensitisation

Skin sensitisation	Not sensitising.
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Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
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Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
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Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
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Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.
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Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.
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Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.
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Aspiration hazard

Aspiration hazard	Not relevant.
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n-BUTANOL

Acute toxicity - oral

Notes (oral LD₅₀)	LD ₅₀ 2292 mg/kg, Oral, Rat Harmful if swallowed.
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Acute toxicity - dermal

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Notes (dermal LD₅₀) LD₅₀ 3430 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₀ 17760 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro No adverse effects observed (negative)

Genotoxicity - in vivo No adverse effects observed (negative)

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 500 mg/kg/day, Oral, Rat P Fertility - NOAEC 6189 mg/m³, Inhalation, Rat P Conclusive data but not sufficient for classification.

Reproductive toxicity - development Developmental toxicity: - NOAEL: 1454 mg/kg/day, Oral, Rat Developmental toxicity: - NOAEC: 10800 mg/m³, Inhalation, Rat This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Prolonged or repeated exposure may cause the following adverse effects: Central and/or peripheral nervous system damage.

Aspiration hazard

Aspiration hazard Not relevant.

TRIZINC BIS(ORTHOPHOSPHATE)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 5.7 mg/l, Inhalation, Rat REACH dossier information. Read-across data.

Skin corrosion/irritation

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Skin corrosion/irritation No adverse effect observed (not irritating)

Serious eye damage/irritation

Serious eye damage/irritation No adverse effect observed (not irritating)

Respiratory sensitisation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

Skin sensitisation No adverse effects observed (not sensitising)

Germ cell mutagenicity

Genotoxicity - in vitro No adverse effects observed (negative)

Genotoxicity - in vivo No adverse effects observed (negative)

Carcinogenicity

Carcinogenicity NOAEL > 22000 mg/l, Oral, Mouse No adverse effects observed. No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility - NOAEL 20 mg/kg/day, Oral, Rat No evidence of reproductive toxicity in animal studies.

Reproductive toxicity - development Developmental toxicity: - NOAEL: 50 mg/kg/day, Oral, Rat No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Conclusive data but not sufficient for classification.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

Aspiration hazard

Aspiration hazard Not relevant.

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,045.0

Species Rat

ATE oral (mg/kg) 5,045.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 12,800.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 20.0

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Species	Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
<u>Carcinogenicity</u>	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Brain damage. Central and/or peripheral nervous system damage.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

ACETONE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 5540 mg/l, Oncorhynchus mykiss (Rainbow trout) LC ₅₀ , 96 hours: 11000 mg/l, Marinewater fish LC ₅₀ , 96 hours: 8300 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 8800 mg/l, Freshwater invertebrates

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Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 7200 mg/l, Algae NOEC, 96 hours: 430 mg/l, Algae
Acute toxicity - microorganisms	EC ₁₀ , NOEC, 30 minutes: 1000 mg/l, Activated sludge
Acute toxicity - terrestrial	LC ₅₀ , 48 hours: 100-1000 µg/cm ² , Eisenia Fetida (Earthworm)
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 2212 mg/l, Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 100-180 mg/l, Pimephales promelas (Fat-head Minnow), Oncorhynchus mykiss (Rainbow trout), Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 408-500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: > 1000 mg/l, Algae
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	LC ₅₀ , 14 days: 63.5 mg/l, Oryzias latipes (Red killifish) NOEC, 14 days: 47.5 mg/l, Oryzias latipes (Red killifish)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: > 100 mg/l, Daphnia magna

n-BUTANOL

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 1376 hours: 96 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1328 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 225 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₁₀ , 17 hours: 2476 mg/l, Pseudomonas putida
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 4.1 mg/l, Daphnia magna

TRIZINC BIS(ORTHOPHOSPHATE)

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1

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Acute toxicity - fish	LC ₅₀ , 96 hours: 169 µg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout) LC ₅₀ , 96 hours: 780 (@ pH 6-6.5) µg/l, <i>Pimephales promelas</i> (Fat-head Minnow) LC ₅₀ , 96 hours: 330 (@ pH 7-7.5) µg/l, <i>Pimephales promelas</i> (Fat-head Minnow) LC ₅₀ , 96 hours: 500 (@ pH 8-8.5) µg/l, <i>Pimephales promelas</i> (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.413 (low pH, low hardness) mg/l, <i>Ceriodaphnia dubia</i> EC ₅₀ , 48 hours: > 0.53 (low pH, high hardness) mg/l, <i>Ceriodaphnia dubia</i> EC ₅₀ , 48 hours: 0.147 (neutral/high pH, low hardness) mg/l, <i>Ceriodaphnia dubia</i> EC ₅₀ , 48 hours: 0.228 (neutral/high pH, high hardness) mg/l, <i>Ceriodaphnia dubia</i>
Acute toxicity - aquatic plants	IC ₅₀ , 3 days: 150 µg/l, <i>Pseudokirchneriella subcapitata</i> NOEC, 3 days: 50 µg/l, <i>Pseudokirchneriella subcapitata</i> EC ₁₀ , 7 days: 7.1-48 (marine) µg/l, red macroalga <i>Ceramium tenuicore</i>
Acute toxicity - microorganisms	IC ₂₀ , 4 hours: 0.16 mg/l, Activated sludge IC ₅₀ , 4 hours: 0.35 mg/l, Activated sludge NOEC, 4 hours: 0.1 mg/l, Activated sludge
Acute toxicity - terrestrial	EC ₁₀ , 42 days: 35.7 mg/kg, <i>Enchytraeus albidus</i> NOEC, 42 days: 1634 mg/kg, <i>Lumbricus terrestris</i>
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, : 0.044 - 0.53 mg/l, REACH Dossier information
Chronic toxicity - aquatic invertebrates	NOEC, : 0.0056 - 0.9 mg/l, NOEC, : 0.037 - 0.4 (marine) mg/l, REACH Dossier information

PROPAN-2-OL

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 9640 mg/l, <i>Pimephales promelas</i> (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: > 10000 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 7 days: 180 mg/l, <i>Selenastrum capricornutum</i>

12.2. Persistence and degradability

Ecological information on ingredients.

ACETONE

Persistence and degradability	90 +/- 2.2%; 28 days Rapidly degradable
Stability (hydrolysis)	The substance is readily biodegradable.

2-METHOXY-1-METHYLETHYL ACETATE

Persistence and degradability	Rapidly degradable
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n-BUTANOL

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Persistence and degradability Rapidly degradable

TRIZINC BIS(ORTHOPHOSPHATE)

Persistence and degradability The product contains only inorganic substances which are not biodegradable.

PROPAN-2-OL

Persistence and degradability Rapidly degradable

12.3. Bioaccumulative potential

Ecological information on ingredients.

ACETONE

Bioaccumulative potential Bioaccumulation is unlikely.

2-METHOXY-1-METHYLETHYL ACETATE

Bioaccumulative potential No potential for bioaccumulation.

Partition coefficient log Pow: 0.56

n-BUTANOL

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient 1.0 @ 25 deg C

TRIZINC BIS(ORTHOPHOSPHATE)

Bioaccumulative potential Not relevant.

PROPAN-2-OL

Bioaccumulative potential No potential for bioaccumulation.

Partition coefficient log Pow: 0.05

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Ecological information on ingredients.

n-BUTANOL

Adsorption/desorption coefficient - Koc: 3.471 @ 20°C

PROPAN-2-OL

Mobility Mobile.

Surface tension 22.7 mN/m @ 20°C

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12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

ACETONE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

2-METHOXY-1-METHYLETHYL ACETATE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

n-BUTANOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

TRIZINC BIS(ORTHOPHOSPHATE)

Results of PBT and vPvB assessment Not relevant.

PROPAN-2-OL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General As supplied, this product is consigned under the Limited Quantities provisions.

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS

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Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

Transport labels



14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ICAO packing group	None
ADN packing group	None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations	EH40/2005 Workplace exposure limits.
EU legislation	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</p> <p>Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).</p> <p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</p> <p>Commission Regulation (EU) No 453/2010 of 20 May 2010.</p> <p>Commission Regulation (EU) No 2015/830 of 28 May 2015.</p>

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Authorisations (Annex XIV Regulation 1907/2006) No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>GHS: Globally Harmonized System.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>UVCB - Unknown or variable composition, complex reaction products or Biological materials.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification procedures according to Regulation (EC) 1272/2008	<p>Aerosol 1 - H222, H229: Calculation method. Eye Dam. 1 - H318: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 3 - H412: Calculation method.</p>
Issued by	Regulatory Specialist
Revision date	13/12/2021
Revision	4

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Supersedes date	04/06/2019
SDS number	21475
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H229 Pressurised container: may burst if heated. H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H360D May damage the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.