SAFETY DATA SHEET
Holts Filler / Primer

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

1.1. Product identifier

Product name Holts Filler / Primer

Product number L113C

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. Paint.

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@dli.mlsi.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.gcsl@aade.gr, environment.gcsl@aade.gr (Greece) +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary) +354 543 22 22; eitur@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) +351213303271; 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; ntic@ntic.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

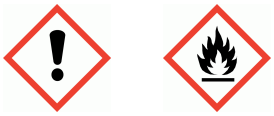
2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Eye Irrit. 2 - H319 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

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

ACETONE, BUTYL ACETATE -norm, BUTANOL-norm

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIMETHYL ETHER **30-60%**

CAS number: 115-10-6 | EC number: 204-065-8 | REACH registration number: 01-2119472128-37-XXXX

Classification
Flam. Gas 1A - H220
Press. Gas (Liq.) - H280

ACETONE **10-30%**

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

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

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BUTANE **5-10%**

CAS number: 106-97-8 EC number: 203-448-7 REACH registration number: 01-2119474691-32-XXXX

Classification
Flam. Gas 1A - H220
Press. Gas

PROPANE **5-10%**

CAS number: 74-98-6 EC number: 200-827-9 REACH registration number: 01-2119486944-21-XXXX

Classification
Flam. Gas 1A - H220

BUTYL ACETATE -norm **5-10%**

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

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

BUTANOL-norm **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

Nitrocellulose (<12.6% Nitrogen) **1-5%**

CAS number: 9004-70-0 EC number: 618-392-2

Classification
Flam. Sol. 1 - H228

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TRIZINC BIS(ORTHOPHOSPHATE)		<1%
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

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. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin contact Remove affected person from source of contamination. Get medical attention if any discomfort continues.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation.

Eye contact Causes serious eye irritation. Prolonged or repeated exposure may cause severe irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

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

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Avoid inhalation of vapours and contact with skin and eyes. If ventilation is inadequate, suitable respiratory protection must be worn.

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. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. 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 spilling. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Do not expose to temperatures exceeding 50°C/122°F.

Storage class Flammable compressed gas storage. Aerosol containers and lighters

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

DIMETHYL ETHER

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m³

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

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)

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

BUTYL ACETATE -norm

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

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Long-term exposure limit (8-hour TWA): OES 800 ppm
Short-term exposure limit (15-minute): OES 800 ppm

BUTANOL-norm

Long-term exposure limit (8-hour TWA): WEL
Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 154 mg/m3(Sk)
WEL = Workplace Exposure Limit.

DIMETHYL ETHER (CAS: 115-10-6)

DNEL	Workers - Inhalation; Long term systemic effects: 1894 mg/m³ Workers - Hazard for the eyes no hazard identified General population - Inhalation; Long term systemic effects: 471 mg/m³ General Population - Hazard for the eyes no hazard identified
PNEC	Fresh water; 0.155 mg/l marine water; 0.016 mg/l STP; 160 mg/l Sediment (Freshwater); 0.681 mg/kg sediment dry weight Sediment (Marinewater); 0.069 mg/kg sediment dry weight Soil; 0.045 mg/kg soil dry weight

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

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

DNEL	Workers - Inhalation; Long term systemic effects: 275 mg/m³ Workers - Inhalation; Short term local effects: 550 mg/m³ Workers - Dermal; Long term systemic effects: 796 mg/kg bw/day General population - Inhalation; Long term systemic effects: 33 mg/m³ General population - Inhalation; Long term local effects: 33 mg/m³ General population - Dermal; Long term systemic effects: 320 mg/kg bw/day General population - Oral; Long term systemic effects: 36 mg/kg bw/day

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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

BUTYL ACETATE -norm (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

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

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

DNEL

Workers - irritation (respiratory tract); Long term local effects: 310 mg/m³
General population - irritation (respiratory tract); Long term systemic effects: 55.357 mg/m³
General population - irritation (respiratory tract); Long term local effects: 155 mg/m³
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

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

Eye/face protection	The following protection should be worn: Chemical splash goggles.
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: Butyl rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product. Do not smoke in work area.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Grey.
Odour	Organic solvents.
Flash point	< 0°C Closed cup.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 2.6 % Upper flammable/explosive limit: 26.2 %
Vapour pressure	4000 hPa @ 20°C
Relative density	~0.7945 @ °C
Auto-ignition temperature	240°C

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9.2. Other information

Volatility 89.6%

Volatile organic compound This product contains a maximum VOC content of 712.8 g/litre. EU: (cat B/c): 780 g/l .

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

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. Avoid contact with acids and alkalis.

10.5. Incompatible materials

Materials to avoid No specific requirements are anticipated under normal conditions of use.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon dioxide (CO2). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 20,000.0

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) 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.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

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.

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

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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 Does not contain any substances known to be toxic to reproduction.

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 Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation.

Eye contact Causes serious eye irritation. Prolonged or repeated exposure may cause severe irritation.

Route of exposure Inhalation Skin and/or eye contact

Toxicological information on ingredients.

DIMETHYL ETHER

Acute toxicity - oral

Notes (oral LD_{50}) Technically not feasible.

Acute toxicity - dermal

Notes (dermal LD_{50}) Technically not feasible.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 164000 ppm, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation No information available.

Serious eye damage/irritation

Serious eye damage/irritation Technically not feasible.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Technically not feasible.

Germ cell mutagenicity

Genotoxicity - in vitro No adverse effects observed (negative)

Genotoxicity - in vivo No adverse effects observed (negative)

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Carcinogenicity

Carcinogenicity	NOAEC 47106 mg/m³, Inhalation, Rat 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. This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 2355 mg/m³, Inhalation, Rat Fetotoxicity: - NOAEL: 75370 mg/m³, Inhalation, Rat This substance has no evidence of toxicity to reproduction.

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.

ACETONE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,800.0
Species	Rat
ATE oral (mg/kg)	5,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	7,400.0
Species	Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	76.0
Species	Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

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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.

2-METHOXY-1-METHYLETHYL ACETATE

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC0 8100 mg/m³, 4 hours, Vapour Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.

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.

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Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

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

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 (LD_{50} mg/kg)	5,000.0
Species	Rat

PROPANE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

ISOBUTANE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

BUTANOL-norm

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 2292 mg/kg, Oral, Rat Harmful if swallowed.

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} 3430 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	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.

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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 LD_{50}) LD_{50} > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50}) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LC50 5.7 mg/l, Inhalation, Rat REACH dossier information. Read-across data.

Skin corrosion/irritation

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)

Holts Filler / Primer

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.

SECTION 12: Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish	No information available.
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - microorganisms	Not available.
Acute toxicity - terrestrial	Not available.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	Not available.
Short term toxicity - embryo and sac fry stages	Not available.
Chronic toxicity - aquatic invertebrates	Not available.

Ecological information on ingredients.

DIMETHYL ETHER

Acute aquatic toxicity

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Acute toxicity - fish	LC_{50}, 96 hours: 4100 mg/l, Poecilia reticulata (Guppy) LC_{50}, 96 hours: 1783 mg/l, QSAR
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 4400 mg/l, Daphnia magna EC_{50}, 48 hours: 755.5 mg/l, QSAR
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 155 mg/l, Green algae
Acute toxicity - microorganisms	EC10, 30 minutes: > 1600 mg/l, Pseudomonas putida

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
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 7200 mg/l, Algae NOEC, 96 hours: 430 mg/l, Algae
Acute toxicity - microorganisms	EC10, NOEC, 30 minutes: 1000 mg/l, Activated sludge
Acute toxicity - terrestrial	LC_{50}, 48 hours: 100-1000 µg/cm2, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 2212 mg/l, Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE

Acute aquatic toxicity

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

Chronic aquatic toxicity

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

BUTANOL-norm

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 1376 hours: 96 mg/l, Fish

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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	EC10, 17 hours: 2476 mg/l, Pseudomonas putida
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 4.1 mg/l, Daphnia magna

TRIZINC BIS(ORTHOPHOSPHATE)

Acute aquatic toxicity	
LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 169 µg/l, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 96 hours: 780 (@ pH 6-6.5) µg/l, Pimephales promelas (Fat-head Minnow) LC_{50}, 96 hours: 330 (@ pH 7-7.5) µg/l, Pimephales promelas (Fat-head Minnow) LC_{50}, 96 hours: 500 (@ pH 8-8.5) µg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.413 (low pH, low hardness) mg/l, Ceriodaphnia dubia EC_{50}, 48 hours: > 0.53 (low pH, high hardness) mg/l, Ceriodaphnia dubia EC_{50}, 48 hours: 0.147 (neutral/high pH, low hardness) mg/l, Ceriodaphnia dubia EC_{50}, 48 hours: 0.228 (neutral/high pH, high hardness) mg/l, Ceriodaphnia dubia
Acute toxicity - aquatic plants	IC_{50}, 3 days: 150 µg/l, Pseudokirchneriella subcapitata NOEC, 3 days: 50 µg/l, Pseudokirchneriella subcapitata EC10, 7 days: 7.1-48 (marine) µg/l, red macroalga Ceramium tenuicore
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	EC10, 42 days: 35.7 mg/kg, Enchytraeus albidus NOEC, 42 days: 1634 mg/kg, Lumbricus terrestris
Chronic aquatic toxicity	
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

12.2. Persistence and degradability

Persistence and degradability Expected to be readily biodegradable.

Ecological information on ingredients.

DIMETHYL ETHER

Holts Filler / Primer

Persistence and degradability	Not readily biodegradable. 5% 28 days
Stability (hydrolysis)	Scientifically unjustified.

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

BUTANOL-norm

Persistence and degradability	Rapidly degradable

TRIZINC BIS(ORTHOPHOSPHATE)

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

12.3. Bioaccumulative potential

Ecological information on ingredients.

DIMETHYL ETHER

Bioaccumulative potential	No potential for bioaccumulation.
Partition coefficient	Log Kow (Log Pow): 0.07 @ 25 deg C (& pH 7)

ACETONE

Bioaccumulative potential	Bioaccumulation is unlikely.

2-METHOXY-1-METHYLETHYL ACETATE

Bioaccumulative potential	No potential for bioaccumulation.
Partition coefficient	log Pow: 0.56

BUTANOL-norm

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	1.0 @ 25 deg C

TRIZINC BIS(ORTHOPHOSPHATE)

Bioaccumulative potential	Not relevant.

12.4. Mobility in soil

Ecological information on ingredients.

Holts Filler / Primer

DIMETHYL ETHER

Adsorption/desorption coefficient calculated - Koc: 7.759 @ 20°C

BUTANOL-norm

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

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

DIMETHYL ETHER

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

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.

BUTANOL-norm

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.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

General Refer to the Dangerous Goods List for information on any Special Provisions 190, 327, 344, 625.

14.1. UN number

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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
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

Not applicable.

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 Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

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EU legislation

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).
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).
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).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
BOD: Biochemical Oxygen Demand.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
EC_{50}: 50% of maximal Effective Concentration.
GHS: Globally Harmonized System.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
LOEC: Lowest Observed Effect Concentration.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
SVHC: Substances of Very High Concern.
UVCB - Unknown or variable composition, complex reaction products or Biological materials.
vPvB: Very Persistent and Very Bioaccumulative.

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Revision 12

Supersedes date 17/08/2011

SDS number 14254

Holts Filler / Primer

Hazard statements in full

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode 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.
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.