SAFETY DATA SHEET
Holts Start Pilote

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

1.1. Product identifier

Product name	Holts Start Pilote
Product number	HSTA0001A, 71011010022, 71011010033, 71011300048, 71011300033, 71011290002, HSTA0002A
UFI	UFI: 9092-3587-X67H-K91S
EU 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.

1.3. Details of the supplier of the safety data sheet

Company	: JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz info@jasa-ag.ch, www.jasa-ag.ch
Telephone	: +41 (0)44 431 60 70
Telefax	: +41 (0)44 432 63 17
Responsible Department	: Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Emergency telephone	: Tox Info Suisse (STIZ), Tel: 145

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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)
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+ 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 (SI 2019 No. 720)

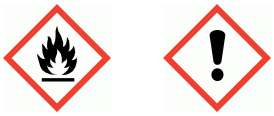
Physical hazards Aerosol 1 - H222, H229

Health hazards STOT SE 3 - H336

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements

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

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Precautionary statements	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. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTRE/doctor if you feel unwell. 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.
UFI	UFI: 9092-3587-X67H-K91S
Contains	DIETHYL ETHER, Hydrocarbons, C6, isoalkanes, <5% n-hexane, DI-ISOPROPYL ETHER, ACETONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIETHYL ETHER **25-50%**

CAS number: 60-29-7 EC number: 200-467-2

Classification
Flam. Liq. 1 - H224
Acute Tox. 4 - H302
STOT SE 3 - H336

Naphtha (petroleum),hydrotreated light **10-25%**

CAS number: 64742-49-0 EC number: 931-254-9

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

DI-ISOPROPYL ETHER **10-25%**

CAS number: 108-20-3 EC number: 203-560-6

Classification
Flam. Liq. 2 - H225
STOT SE 3 - H336

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ACETONE	5-10%
CAS number: 67-64-1	EC number: 200-662-2
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	

BUTANE	5-10%
CAS number: 106-97-8	EC number: 203-448-7
Classification Flam. Gas 1A - H220 Press. Gas	

ISOBUTANE	1-5%
CAS number: 75-28-5	EC number: 200-857-2
Classification Flam. Gas 1A - H220 Press. Gas	

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 Do not induce vomiting. Get medical attention immediately.

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 with 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 Central nervous system depression. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed. May cause drowsiness or dizziness.

Skin contact May be slightly irritating to skin. Product has a defatting effect on skin. Prolonged or repeated exposure may cause severe irritation.

Eye contact May be slightly irritating to eyes. 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

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Suitable extinguishing media Extinguish with the following media: Water spray, foam, dry powder or carbon dioxide.

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 Oxides of carbon.

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.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

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. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Avoid contact with skin and eyes. Avoid release to the environment.

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

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place.

Storage class 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

DIETHYL ETHER

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Long-term exposure limit (8-hour TWA): WEL 100 ppm 310 mg/m³
Short-term exposure limit (15-minute): WEL 200 ppm 620 mg/m³

DI-ISOPROPYL ETHER

Long-term exposure limit (8-hour TWA): WEL 250 ppm 1060 mg/m³
Short-term exposure limit (15-minute): WEL 310 ppm 1310 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

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

ISOBUTANE

Long-term exposure limit (8-hour TWA): OES 800 ppm
Short-term exposure limit (15-minute): OES 800 ppm
WEL = Workplace Exposure Limit.

DIETHYL ETHER (CAS: 60-29-7)

DNEL	Workers - Inhalation; Long term systemic effects: 308 mg/m³ Workers - Inhalation; Short term systemic effects: 616 mg/m³ Workers - Dermal; Long term systemic effects: 44 mg/kg bw/day General population - Inhalation; Long term systemic effects: 54.5 mg/m³ General population - Dermal; Long term systemic effects: 15.6 mg/kg bw/day General population - Oral; Long term systemic effects: 15.6 mg/kg bw/day
PNEC	Fresh water; 2 mg/l marine water; 0.2 mg/l STP; 4.2 mg/l Sediment (Freshwater); 9.14 mg/kg sediment dry weight Sediment (Marinewater); 0.914 mg/kg sediment dry weight Soil; 0.66 mg/kg soil dry weight

Naphtha (petroleum),hydrotreated light (CAS: 64742-49-0)

DNEL	Workers - Inhalation; Long term systemic effects: 1286.4 mg/m³ Workers - Inhalation; Long term local effects: 837.5 mg/m³ Workers - Inhalation; Short term local effects: 1066.67 mg/m³ General population - Inhalation; Long term systemic effects: 1152 mg/m³ General population - Inhalation; Long term local effects: 178.57 mg/m³

DI-ISOPROPYL ETHER (CAS: 108-20-3)

DNEL	Workers - Inhalation; Long term systemic effects: 850 mg/m³ Workers - Inhalation; Short term systemic effects: 1700 mg/m³ Workers - Dermal; Long term systemic effects: 121.4 mg/kg bw/day General population - Inhalation; Long term systemic effects: 151 mg/m³ General population - Inhalation; Short term systemic effects: 302 mg/m³ General population - Dermal; Long term systemic effects: 43.1 mg/kg bw/day General population - Oral; Long term systemic effects: 43.1 mg/kg bw/day

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PNEC	Fresh water; 0.19 mg/l marine water; 0.019 mg/l STP; 37 mg/l Sediment (Freshwater); 2.79 mg/kg sediment dry weight Sediment (Marinewater); 0.28 mg/kg sediment dry weight Soil; 0.47 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

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). To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.
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. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.
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.

Holts Start Pilote

Colour	Colourless.
Odour	Ether.
Flash point	< 0°C
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1 % Upper flammable/explosive limit: 36 %
Vapour pressure	3500 hPa @ 20°C
Solubility(ies)	Immiscible with water.
Auto-ignition temperature	170°C

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 637.2 g/l. This product contains a maximum VOC content of 92 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Vapours may form explosive mixtures with air.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong mineral acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon.

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

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.

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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 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.

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 Central nervous system depression. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed. May cause drowsiness or dizziness.

Skin contact May be slightly irritating to skin. Product has a defatting effect on skin. Prolonged or repeated exposure may cause severe irritation.

Eye contact May be slightly irritating to eyes. Prolonged or repeated exposure may cause severe irritation.

Route of exposure Inhalation Skin and/or eye contact

Toxicological information on ingredients.

DIETHYL ETHER

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,200.0
Species	Rat
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20,000.0
Species	Rabbit

Holts Start Pilote

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	97.0
Species	Mouse
ATE inhalation (vapours mg/l)	97.0

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	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.

Carcinogenicity

Carcinogenicity	No information required.

Reproductive toxicity

Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies. REACH dossier information.
Reproductive toxicity - development	Maternal toxicity: - NOAEC: 430 ppm, Inhalation, Rat Teratogenicity: - NOAEL: 500 ppm, Oral, Rat Teratogenicity: - NOAEL: 80 mg/kg/day, Oral, Rabbit

Specific target organ toxicity - single exposure

STOT - single exposure	Central and/or peripheral nervous system damage.
Target organs	Central nervous system

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.

Naphtha (petroleum),hydrotreated light

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 16750 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} 3350 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

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Notes (inhalation LC_{50})	LC50 259354 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

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

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. NOAEC 31680 mg/m³, Inhalation, Mouse

Reproductive toxicity

Reproductive toxicity - fertility	Two-generation study - NOAEC 31680 mg/m³, Inhalation, Rat F1, F2

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	May be fatal if swallowed and enters airways.

Inhalation	May cause drowsiness or dizziness.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	May be slightly irritating to skin.
Eye contact	May be slightly irritating to eyes.

DI-ISOPROPYL ETHER

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 4600 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 64000 mg/m³, Inhalation, Monkey

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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	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	No information available.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility	Two-generation study - NOAEL 1000 mg/kg/day, Oral, Rat F1 One-generation study - NOAEC 3560 mg/m³, Inhalation, Rat F0
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat Developmental toxicity: - NOAEC: 1800 mg/m³, Inhalation, Rat No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

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

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.

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

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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

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 (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

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ISOBUTANE

Acute toxicity - oral

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

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

DIETHYL ETHER

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 48 hours: 2840 mg/l, Leuciscus idus (Golden orfe) LC_{50}, 96 hours: 2560 mg/l, Pimephales promelas (Fat-head Minnow) LC_{50}, 14 days: 2138 mg/l, Poecilia reticulata (Guppy) LC_{50}, 96 hours: > 10000 mg/l, Lepomis macrochirus (Bluegill) LC_{50}, 96 hours: > 10000 mg/l, Menidia peninsulae (Tidewater silverside)
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 165 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 72 hours: 100 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC_{50}, 5 minutes: 3536 mg/l, Pseudomonas putida EC_{50}, 15 minutes: 5620 mg/l, Photobacterium phosphoreum luminescence inhibition study IC_{50}, 15 hours: 17000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	LOEC, 21 days: > 100 mg/l, Daphnia magna

Naphtha (petroleum),hydrotreated light

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 18.27 mg/l, QSAR
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 31.9 mg/l, QSAR
Acute toxicity - aquatic plants	EL50, 72 hours: 13.56 mg/l, QSAR
Acute toxicity - microorganisms	EL50, 48 hours: 15.81 mg/l, QSAR

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOELR, 28 days: 4.089 mg/l, QSAR

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Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 7.138 mg/l, QSAR

DI-ISOPROPYL ETHER

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 402 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 190 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 1000 mg/l, Pseudokirchneriella subcapitata EC10, NOEC, 96 hours: 1000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC_{50}, 3 hours: 2249 mg/l, Activated sludge EC10, NOEC, 3 hours: 370 mg/l, Activated sludge

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

12.2. Persistence and degradability

Ecological information on ingredients.

DIETHYL ETHER

Persistence and degradability	Not readily biodegradable.

Naphtha (petroleum),hydrotreated light

Persistence and degradability	98% 28 days Rapidly degradable

DI-ISOPROPYL ETHER

Persistence and degradability	Not readily biodegradable.

ACETONE

Holts Start Pilote

Persistence and degradability 90 +/- 2.2%; 28 days Rapidly degradable

Stability (hydrolysis) The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No specific test data are available.

Ecological information on ingredients.

DIETHYL ETHER

Partition coefficient log Pow: 1.05

DI-ISOPROPYL ETHER

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 2.4

ACETONE

Bioaccumulative potential Bioaccumulation is unlikely.

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

DIETHYL ETHER

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

Naphtha (petroleum),hydrotreated light

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

DI-ISOPROPYL ETHER

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

ACETONE

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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. Avoid the spillage or runoff entering drains, sewers or watercourses.

SECTION 14: Transport information

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

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

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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

Authorisations (SI 2020 No. 1577 Annex XIV) No specific authorisations are known for this product.

Restrictions (SI 2020 No. 1577 Annex XVII) 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

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.
Kow: Octanol-water partition coefficient.
LC50: Lethal Concentration to 50 % of a test population.
LD50: 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.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.
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.

Classification procedures according to SI 2019 No. 720 Aerosol 1 - H222, H229: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 3 - H412: Calculation method.

Issued by Regulatory Specialist

Revision date 01/02/2022

Holts Start Pilote

Revision	9
Supersedes date	27/05/2021
SDS number	14751
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.