



## SAFETY DATA SHEET

### Bradex Easy Start

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

##### 1.1. Product identifier

Product name	Bradex Easy Start
Product number	BES1A
Internal identification	PA013L
UFI	UFI: PM6E-N0Q1-1000-C4ES
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.
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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@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.gcsf@aade.gr, environment.gcsf@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@lvvmc.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 (SI 2019 No. 720)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Acute Tox. 4 - H302 STOT SE 3 - H336
Environmental hazards	Aquatic Chronic 3 - H412

#### 2.2. Label elements

##### Hazard pictograms



Signal word

Danger

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<b>Hazard statements</b>	<p>H222 Extremely flammable aerosol.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
<b>Precautionary statements</b>	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</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>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>
<b>Supplemental label information</b>	<p>EUH066 Repeated exposure may cause skin dryness or cracking.</p> <p>EUH019 May form explosive peroxides.</p>
<b>UFI</b>	UFI: PM6E-N0Q1-1000-C4ES
<b>Contains</b>	DIETHYL ETHER, Naphtha (petroleum),hydrotreated light, DI-ISOPROPYL ETHER, ACETONE
<b>Supplementary precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P330 Rinse mouth.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p>

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>DIETHYL ETHER</b>		<b>25-50%</b>
CAS number: 60-29-7		EC number: 200-467-2
<b>Classification</b> Flam. Liq. 1 - H224 Acute Tox. 4 - H302 STOT SE 3 - H336		
<b>BUTANE</b>		<b>10-25%</b>
CAS number: 106-97-8		EC number: 203-448-7
<b>Classification</b> Flam. Gas 1A - H220 Press. Gas		

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<b>PROPANE</b> <span style="float: right;">5-10%</span> CAS number: 74-98-6                      EC number: 200-827-9
<b>Classification</b> Flam. Gas 1A - H220
<b>ISOBUTANE</b> <span style="float: right;">5-10%</span> CAS number: 75-28-5                      EC number: 200-857-2
<b>Classification</b> Flam. Gas 1A - H220 Press. Gas
<b>Naphtha (petroleum),hydrotreated light</b> <span style="float: right;">1-5%</span> CAS number: 64742-49-0                      EC number: 931-254-9
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411
<b>DI-ISOPROPYL ETHER</b> <span style="float: right;">1-5%</span> CAS number: 108-20-3                      EC number: 203-560-6
<b>Classification</b> Flam. Liq. 2 - H225 STOT SE 3 - H336
<b>ACETONE</b> <span style="float: right;">1-5%</span> CAS number: 67-64-1                      EC number: 200-662-2
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
<b>DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U</b> <span style="float: right;">1-5%</span> CAS number: 64742-52-5                      EC number: 265-155-0
<b>Classification</b> Not Classified

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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<b>Inhalation</b>	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. 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**

<b>General information</b>	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.
<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.
<b>Ingestion</b>	Harmful if swallowed. Swallowing concentrated chemical may cause severe internal injury.
<b>Skin contact</b>	May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation.
<b>Eye contact</b>	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**

<b>Notes for the doctor</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Oxides of carbon.

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.
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## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Not considered to be a significant hazard due to the small quantities used. Avoid release to the environment.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	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.
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### **6.4. Reference to other sections**

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**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 spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

#### 7.2. Conditions for safe storage, including any incompatibilities

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

**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

Long-term exposure limit (8-hour TWA): WEL 100 ppm 310 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 200 ppm 620 mg/m<sup>3</sup>

##### BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

##### ISOBUTANE

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

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

##### DI-ISOPROPYL ETHER

Long-term exposure limit (8-hour TWA): WEL 250 ppm 1060 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 310 ppm 1310 mg/m<sup>3</sup>

##### ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### DIETHYL ETHER (CAS: 60-29-7)

##### DNEL

Workers - Inhalation; Long term systemic effects: 308 mg/m<sup>3</sup>

Workers - Inhalation; Short term systemic effects: 616 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 44 mg/kg bw/day

General population - Inhalation; Long term systemic effects: 54.5 mg/m<sup>3</sup>

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

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### 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/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 837.5 mg/m<sup>3</sup>  
Workers - Inhalation; Short term local effects: 1066.67 mg/m<sup>3</sup>  
General population - Inhalation; Long term systemic effects: 1152 mg/m<sup>3</sup>  
General population - Inhalation; Long term local effects: 178.57 mg/m<sup>3</sup>

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

### DNEL

Workers - Inhalation; Long term systemic effects: 850 mg/m<sup>3</sup>  
Workers - Inhalation; Short term systemic effects: 1700 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 121.4 mg/kg bw/day  
General population - Inhalation; Long term systemic effects: 151 mg/m<sup>3</sup>  
General population - Inhalation; Short term systemic effects: 302 mg/m<sup>3</sup>  
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

### 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/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 1210 mg/m<sup>3</sup>  
Consumer - Inhalation; Long term systemic effects: 200 mg/m<sup>3</sup>

### 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

### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U (CAS: 64742-52-5)

### DNEL

Workers - Inhalation; Long term systemic effects: 2.73 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 5.58 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 0.97 mg/kg bw/day  
General population - Oral; Long term systemic effects: 0.74 mg/kg bw/day

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### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

No specific eye protection noted, but may be required anyway.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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 reasonably probable skin contact.

#### Hygiene measures

Wash hands after handling.

#### Respiratory protection

No specific recommendations.

#### Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Organic solvents.
Flash point	-38°C
Auto-ignition temperature	180°C

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	Vapours may form explosive mixtures with air.
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#### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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#### 10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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#### 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.
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#### 10.6. Hazardous decomposition products



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**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: 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<sub>50</sub>)** Harmful if swallowed.

**ATE oral (mg/kg)** 1,857.36

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** 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** 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.

**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.

##### 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 drowsiness and dizziness. Vapours may cause headache, fatigue, dizziness and nausea. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.

##### **Ingestion**

Harmful if swallowed. Swallowing concentrated chemical may cause severe internal injury.

##### **Skin contact**

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

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**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<sub>50</sub> mg/kg) 1,200.0

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 20,000.0

Species Rabbit

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> 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

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**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.

### BUTANE

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

### PROPANE

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

### ISOBUTANE

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

### Naphtha (petroleum),hydrotreated light

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 16750 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 3350 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC50 259354 mg/m<sup>3</sup>, 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

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<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met. NOAEC 31680 mg/m <sup>3</sup> , Inhalation, Mouse
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEC 31680 mg/m <sup>3</sup> , Inhalation, Rat F1, F2
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	May cause drowsiness or dizziness.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	May cause drowsiness or dizziness.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	May be fatal if swallowed and enters airways.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	May be slightly irritating to skin.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	May be slightly irritating to eyes.

## DI-ISOPROPYL ETHER

<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> 4600 mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> 2000 mg/kg, Dermal, Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50 64000 mg/m <sup>3</sup> , Inhalation, Monkey
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available.

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### 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/m<sup>3</sup>, Inhalation, Rat F0

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat Developmental toxicity: - NOAEC: 1800 mg/m<sup>3</sup>, 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<sub>50</sub> mg/kg)** 5,800.0

**Species** Rat

**ATE oral (mg/kg)** 5,800.0

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 7,400.0

**Species** Rabbit

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> 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

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<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No evidence of reproductive toxicity in animal studies. REACH dossier information.
<b>Reproductive toxicity - development</b>	No evidence of reproductive toxicity in animal studies.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Central and/or peripheral nervous system damage. Narcotic effects
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant.

### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> > 5000 mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> > 2000 mg/kg, Dermal, Rat
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50 > 5 mg/l, Inhalation, Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.

## Bradex Easy Start

<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	May cause cancer.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEL 1000 mg/kg/day, Oral, Rat F0 This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - LOAEL: 125 mg/kg/day, Oral, Rat Teratogenicity: - NOAEL: 2000 mg/kg/day, Oral, Rat No evidence of reproductive toxicity in animal studies.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant.

### 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

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

##### Chronic aquatic toxicity

<b>Chronic toxicity - aquatic invertebrates</b>	LOEC, 21 days: > 100 mg/l, Daphnia magna
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#### Naphtha (petroleum),hydrotreated light

##### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 18.27 mg/l, QSAR
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## Bradex Easy Start

Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 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
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	NOELR, 28 days: 4.089 mg/l, QSAR
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 7.138 mg/l, QSAR

### DI-ISOPROPYL ETHER

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 402 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 190 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 96 hours: 1000 mg/l, Pseudokirchneriella subcapitata EC10, NOEC, 96 hours: 1000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC <sub>50</sub> , 3 hours: 2249 mg/l, Activated sludge EC10, NOEC, 3 hours: 370 mg/l, Activated sludge

### ACETONE

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 5540 mg/l, Oncorhynchus mykiss (Rainbow trout) LC <sub>50</sub> , 96 hours: 11000 mg/l, Marinewater fish LC <sub>50</sub> , 96 hours: 8300 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 8800 mg/l, Freshwater invertebrates
Acute toxicity - aquatic plants	EC <sub>50</sub> , 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 <sub>50</sub> , 48 hours: 100-1000 µg/cm <sup>2</sup> , Eisenia Fetida (Earthworm)
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#### Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 2212 mg/l, Daphnia magna
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### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

#### Acute aquatic toxicity

Acute toxicity - fish	LL <sub>50</sub> , 96 hours: 100 mg/l, Pimephales promelas (Fat-head Minnow) NOEL, 96 hours: 100 mg/l, Pimephales promelas (Fat-head Minnow)
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## Bradex Easy Start

<b>Acute toxicity - aquatic invertebrates</b>	EL50, 48 hours: > 10000 mg/l, Daphnia magna NOEL, 48 hours: 1000 mg/l, Daphnia magna LL <sub>50</sub> , 96 hours: > 10000 mg/l, Gammarus pulex NOEL, 96 hours: 10000 mg/l, Gammarus pulex
<b>Acute toxicity - aquatic plants</b>	NOEL, 72 hours: 100 mg/l, Pseudokirchneriella subcapitata
<b>Acute toxicity - microorganisms</b>	NOEL, 4 days: > 1.93 mg/l, Photobacterium phosphoreum luminescence inhibition study Read-across data.
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEL, 21 days: 10 mg/l, Daphnia magna

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

##### DIETHYL ETHER

<b>Persistence and degradability</b>	Not readily biodegradable.
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##### Naphtha (petroleum),hydrotreated light

<b>Persistence and degradability</b>	98% 28 days Rapidly degradable
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##### DI-ISOPROPYL ETHER

<b>Persistence and degradability</b>	Not readily biodegradable.
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##### ACETONE

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

##### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

<b>Persistence and degradability</b>	Not readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Ecological information on ingredients.

##### DIETHYL ETHER

<b>Partition coefficient</b>	log Pow: 1.05
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##### DI-ISOPROPYL ETHER

<b>Bioaccumulative potential</b>	Bioaccumulation is unlikely.
<b>Partition coefficient</b>	log Pow: 2.4

## Bradex Easy Start

### ACETONE

**Bioaccumulative potential** Bioaccumulation is unlikely.

### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

**Partition coefficient** Not applicable.

#### 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.

### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

**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** The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

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

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1950

## Bradex Easy Start

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

### 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

## 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).

**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.

## Bradex Easy Start

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC<sub>50</sub>: 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>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>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: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</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>
<b>Classification procedures according to SI 2019 No. 720</b>	<p>Aerosol 1 - H222, H229: Calculation method. Acute Tox. 4 - H302: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 3 - H412: Calculation method.</p>
<b>Issued by</b>	Regulatory Specialist
<b>Revision date</b>	06/12/2022
<b>Revision</b>	10
<b>Supersedes date</b>	15/12/2021
<b>SDS number</b>	14771
<b>Hazard statements in full</b>	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H224 Extremely flammable liquid and vapour.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

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