SAFETY DATA SHEET
Holts Matt BLACK paint

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

1.1. Product identifier

Product name Holts Matt BLACK paint

Product number L112C

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

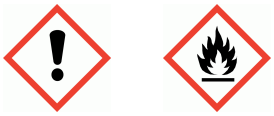
2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards	Not Classified

2.2. Label elements

Hazard pictograms



Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

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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.
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, BUTANONE

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

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

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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

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

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

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

BUTANONE **1-5%**

CAS number: 78-93-3 EC number: 201-159-0 REACH registration number: 01-2119457290-43-XXXX

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

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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

ALUMINIUM POWDER (PYROPHORIC)		**1-5%**
CAS number: 7429-90-5	EC number: 231-072-3	REACH registration number: 01-2119529243-45-XXXX

Classification
Pyr. Sol. 1 - H250
Water-react. 2 - H261

XYLENE		**1-5%**
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-XXXX

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315

Nitrocellulose (<12.6% Nitrogen)		**1-5%**
CAS number: 9004-70-0	EC number: 618-392-2	

Classification
Flam. Sol. 1 - H228

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.

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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.

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

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/spray 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)

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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

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

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)

ISOBUTANE

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

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m3(Sk)
Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m3(Sk)

BUTANOL-norm

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

ALUMINIUM POWDER (PYROPHORIC)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³
Sk
WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

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

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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

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

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

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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

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

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

BUTANONE (CAS: 78-93-3)

DNEL

Workers - Inhalation; Long term systemic effects: 600 mg/m³
Workers - Dermal; Long term systemic effects: 1161 mg/kg/day
General population - Inhalation; Long term systemic effects: 106 mg/m³
General population - Dermal; Long term systemic effects: 412 mg/kg/day
General population - Oral; Long term systemic effects: 31 mg/kg/day

PNEC

Fresh water; 55.8 mg/l
Fresh water, Intermittent release; 55.8 mg/l
marine water; 55.8 mg/l
STP; 709 mg/l
Sediment (Freshwater); 284.7 mg/kg
Sediment (Marinewater); 284.7 mg/kg
Soil; 22.5 mg/kg

ALUMINIUM POWDER (PYROPHORIC) (CAS: 7429-90-5)

DNEL

Workers - Inhalation; Long term systemic effects: 3.72 mg/m³
Workers - Inhalation; Long term local effects: 3.72 mg/m³
General population - Oral; Long term systemic effects: 7.9 mg/kg/day

XYLENE (CAS: 1330-20-7)

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DNEL	Consumer - Dermal; Long term systemic effects: 108 mg/kg/day Workers - Dermal; Long term systemic effects: 180 mg/kg/day Consumer - Inhalation; Short term local effects: 174 mg/m³ Consumer - Inhalation; Short term systemic effects: 174 mg/m³ Workers - Inhalation; Short term systemic effects: 289 mg/m³ Workers - Inhalation; Short term local effects: 289 mg/m³ Consumer - Inhalation; Long term systemic effects: 14.8 mg/m³ Workers - Inhalation; Long term systemic effects: 77 mg/m³

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	Black.
Odour	Organic solvents.
Flash point	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.6% Upper flammable/explosive limit: 18.6%
Relative density	~0.748 @ °C
Auto-ignition temperature	235°C

9.2. Other information

Volatility	91.9%
Volatile organic compound	This product contains a maximum VOC content of 687.5 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.

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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.

ATE dermal (mg/kg) 200,000.0

Acute toxicity - inhalation

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

ATE inhalation (vapours mg/l) 1,100.0

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.

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 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)

Carcinogenicity

Carcinogenicity NOAEC 47106 mg/m³, Inhalation, Rat Based on available data the classification criteria are not met.

Reproductive toxicity

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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

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

Carcinogenicity

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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

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

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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	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.

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

BUTANONE

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 2193 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 10 ml/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC_{50})	No information available.

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

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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 information required.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 1644 mg/kg/day, Oral, Rat P, F1
Reproductive toxicity - development	Fetotoxicity:, Maternal toxicity: - NOAEC: 1002 ppm, Inhalation, Rat This substance has no evidence of toxicity to reproduction.
Specific target organ toxicity - single exposure	
STOT - single exposure	A single exposure may cause the following adverse effects: 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.

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.
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	

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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.

ALUMINIUM POWDER (PYROPHORIC)

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	No specific test data are available. Scientifically unjustified. REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 > 888 mg/m³, Inhalation, Rat NOAEC 10 mg/m³, Inhalation, Rat

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 adverse effects observed (not sensitising)

Skin sensitisation

Skin sensitisation	No adverse effects observed (not sensitising)

Germ cell mutagenicity

Genotoxicity - in vitro	No adverse effects observed (negative)
Genotoxicity - in vivo	No adverse effects observed (negative)

Carcinogenicity

Carcinogenicity	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	Embryotoxicity:, Teratogenicity: - NOAEL: > 266 mg/kg/day, Oral, Rat Read-across data.

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.

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,523.0
Species	Rat
ATE oral (mg/kg)	3,523.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	2,000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	29,000.0
Species	Rat
Species	Human
ATE inhalation (vapours mg/l)	11.0

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

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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

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

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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

BUTANONE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 308 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 2029 mg/l, Pseudokirchneriella subcapitata EC10, NOEC, 96 hours: 1240 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	Toxicity threshold, 16 hours: 1150 mg/l, Pseudomonas putida Toxicity threshold, 72 hours: 190 mg/l, Entosiphon sulcatum Toxicity threshold, 20 hours: 2830 mg/l, Uronema parduczi. Toxicity threshold, 48 hours: 2982 mg/l, Chilomonas paramaecium, cell multiplication inhibition test

BUTANOL-norm

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 1376 hours: 96 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1328 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 225 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC10, 17 hours: 2476 mg/l, Pseudomonas putida

Chronic aquatic toxicity

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Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 4.1 mg/l, Daphnia magna

ALUMINIUM POWDER (PYROPHORIC)

Acute aquatic toxicity

Acute toxicity - fish	NOEC, 96 hours: > 50 mg/l, Ictalurus punctatus / I. robustus
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.07 - > 99.6 mg/l, NOEC, 48 hours: > 0.005 - > 0.135 mg/l,
Acute toxicity - aquatic plants	ErC10, 72 hours: 0.051 - 3.15 mg/l, ErC50, 72 hours: 0.024 - 4.93 mg/l, NOEC, EC10, 7 days: > 45.7 mg/l, Lemna minor
Acute toxicity - microorganisms	EC10, 3 hours: > 200 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 7 - 60 days: 0.088 - 2.3 mg/l, Pimephales promelas (Fat-head Minnow), Salveninus fontinalis EC10, 7 - 60 days: 0.078 - 5.19 mg/l, Pimephales promelas (Fat-head Minnow), Salveninus fontinalis
Chronic toxicity - aquatic invertebrates	NOEC, 7 - 28 days: 0.076 - 4.9 mg/l, Ceriodaphnia dubia, Daphnia magna EC10, 7 - 28 days: 0.021 - 0.997 mg/l, Ceriodaphnia dubia, Daphnia magna

XYLENE

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 13.5 hours: 96 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 7.4 hours: 48 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 1-10 mg/l, Algae

12.2. Persistence and degradability

Ecological information on ingredients.

DIMETHYL ETHER

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

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Persistence and degradability Rapidly degradable

BUTANONE

Persistence and degradability Rapidly degradable

BUTANOL-norm

Persistence and degradability Rapidly degradable

ALUMINIUM POWDER (PYROPHORIC)

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

Biodegradation Technically not feasible.

XYLENE

Biodegradation The substance is readily 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

BUTANONE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 0.3 @ 40 deg C

BUTANOL-norm

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient 1.0 @ 25 deg C

ALUMINIUM POWDER (PYROPHORIC)

Bioaccumulative potential Bioaccumulation is unlikely.

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Partition coefficient Scientifically unjustified.

12.4. Mobility in soil

Ecological information on ingredients.

DIMETHYL ETHER

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

BUTANONE

Adsorption/desorption coefficient Expected to have a low potential for adsorption.

BUTANOL-norm

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

12.5. Results of PBT and vPvB assessment

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.

BUTANONE

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.

ALUMINIUM POWDER (PYROPHORIC)

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

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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

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

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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).

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.

Revision date 15/07/2021

Holts Matt BLACK paint

Revision	8
Supersedes date	20/07/2011
SDS number	14221
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. H250 Catches fire spontaneously if exposed to air. H261 In contact with water releases flammable gases. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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